

614	HNECI74	862042	624	18 - 653	2029	Ser-105 to Pro-110, His-180 to His-196.	S0420: 1, S0360: 1, H0618: 1, H0424: 1, L0055: 1, H0087: 1, S0002: 1, L0769: 1, L0768: 1, L0766: 1, L0634: 1, H0436: 1, L0747: 1, L0777: 1 and H0542: 1.	161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884	123-152, 63-83, 36- 55, 143- 159
							AR096: 22, AR089: 22, AR053: 16, AR039: 13, AR060: 12, AR033: 11, AR052: 9, AR055: 7, AR061: 6, AR104: 4 L0751: 15, L0752: 12, L0758: 9, L0766: 8, L0769: 7, L0750: 7, L0776: 6, L0753: 4, L0759: 4, H0585: 3, H0549: 3, H0620: 3, H0628: 3, H0617: 3, L0742: 3, L0754: 3, L0747: 3, L0731: 3, S0436: 3, H0624:		

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615	HCRNU23	862179	625	227 - 586	2030	Pro-60 to Gly-66.			AR033: 12, AR089: 10, AR052: 6, AR055: 6, AR061: 5, AR096: 5, AR053: 5, AR060: 5, AR039: 0, AR104: 0 S0356: 1, H0431: 1, H0013: 1, H0599: 1, L0770: 1 and L0777: 1.				99-120, 32-48
616	HCMSK41	862374	626	13 - 372	2031	Pro-111 to Ser-120.			AR096: 4, AR055: 3, AR053: 3, AR033: 2, AR060: 2, AR061: 2, AR052: 2, AR104: 1, AR089: 1, AR039: 0 H0196: 1				62-82
617	HEEAF67	862392	627	55 - 639	2032	Val-15 to Lys-21, Met-62 to Pro-67.			AR033: 12, AR053: 10, AR052: 10, AR096: 10, AR055: 9, AR089: 9, AR104: 9, AR060: 8, AR061: 6, AR039: 3				79-105, 112-137, 21-39, 161-177

	L0748: 7, L0747: 7, L0777: 7, L0731: 7, L0803: 6, S0212: 4, L0751: 4, L0754: 4, S0358: 3, L0794: 3, L0517: 3, L0809: 3, H0663: 2, S0038: 2, L0637: 2, L0771: 2, L0775: 2, L0526: 2, L0783: 2, L0790: 2, H0144: 2, L0744: 2, L0439: 2, L0752: 2, L0758: 2, L0594: 2, L0603: 2, H0624: 1, S0408: 1, H0393: 1, H0549: 1, H0333: 1, L0477: 1, S0010: 1, H0567: 1, H0011: 1, H0012: 1, H0620: 1, H0083: 1, H0099: 1, H0615: 1, H0688: 1, H0628: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0264: 1, H0412: 1, H0396: 1, H0647: 1, L0770: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0657: 1, L0558: 1, L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, S0192: 1 and H0542: 1.							
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618	HWAFQ22	862394	628	497 - 907	2033	Met-1 to Ala-9, Ala-49 to Ser-54, Asp-98 to Trp-103.	AR096: 3, AR089: 1, AR033: 1, AR039: 1, AR060: 1, AR052: 0, AR055: 0, AR053: 0, AR061: 0, AR104: 0 L0439: 12, L0751: 7, L0745: 6, L0766: 4, L0438: 4, H0580: 3, L0717: 3, H0592: 3, S0372: 3, L0770: 3, L0665: 3, L0750: 3, H0422: 3, H0657: 2, S0442: 2, S0444: 2, H0581: 2, H0553: 2, H0494: 2, S0422: 2, L0637: 2, L0662: 2, L0649: 2, L0659: 2, L0793: 2, L0666: 2, L0664: 2, H0726: 2, H0521: 2, L0758: 2, H0445: 2, S0436: 2, L0603: 2, T0002: 1, H0341: 1, H0484: 1, S0420: 1, S0376: 1, H0730: 1, S0045: 1, S0476: 1, H0261: 1, H0586: 1, H0497: 1, H0013: 1, S0474: 1, H0566: 1, H0012: 1, H0594: 1, H0030: 1, L0055: 1, H0616: 1, H0488: 1, H0366: 1, S0426: 1, L0769: 1, L0638: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1,				60-79
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619	HCECR08	862433	629	567 - 1076	2034				L0767: 1, L0768: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0809: 1, H0703: 1, S0148: 1, H0724: 1, H0547: 1, H0519: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0696: 1, S0406: 1, L0756: 1, L0777: 1, L0599: 1, L0601: 1, S0026: 1, S0242: 1 and H0542: 1.				
									AR104: 8, AR061: 4, AR089: 3, AR060: 2, AR033: 2, AR039: 1, AR055: 1, AR096: 1, AR052: 0, AR053: 0 L0779: 6, H0556: 5, L0740: 5, H0052: 4, L0766: 3, H0521: 3, S0028: 3, L0756: 3, S0222: 2, H0553: 2, H0038: 2, L0804: 2, L0666: 2, L0665: 2, L0438: 2, H0658: 2, L0439: 2, L0749: 2, L0758: 2, L0601: 2, H0543: 2, H0255: 1, H0663: 1, S0420: 1, S0356: 1, S0358: 1, H0619: 1, L0717: 1, H0411: 1, H0550: 1, H0592: 1, H0587: 1, H0559: 1, H0486: 1, H0618: 1, H0390: 1, S0346: 1,				132-152, 96-112, 77-93, 33- 49

620	HDPCX59	862442	630	685 - 1038	2035	Met-1 to Arg-6.	H0581: 1, H0194: 1, H0121: 1, H0457: 1, H0050: 1, S0051: 1, H0594: 1, H0266: 1, H0271: 1, S0003: 1, H0328: 1, H0622: 1, H0644: 1, H0032: 1, H0135: 1, H0634: 1, H0616: 1, H0087: 1, H0551: 1, H0059: 1, H0100: 1, H0561: 1, S0448: 1, H0132: 1, H0633: 1, H0646: 1, S0002: 1, S0426: 1, L0796: 1, L0761: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0805: 1, L0789: 1, L0663: 1, H0703: 1, H0519: 1, H0682: 1, H0435: 1, H0648: 1, S0152: 1, H0696: 1, H0555: 1, S0206: 1, L0754: 1, L0752: 1, L0731: 1, L0757: 1 and H0423: 1.	4q11-q13	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650	95-118, 81-97, 40- 56
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621	HBCAY76	862450	631	56 - 1186	2036	Arg-68 to Gly-73, Arg-81 to Asn-86, Cys-128 to Glu-133, Arg-175 to Asp-184, Pro-315 to Ser-334, Ser-337 to Ser-360.	AR061: 8, AR039: 3, AR104: 2, AR033: 2, AR060: 1, AR053: 1, AR096: 0, AR055: 0, AR089: 0 L0748: 10, L0809: 5, L0777: 5, H0556: 4, L0769: 4, H0052: 3, S0206: 3, H0265: 2, L0764: 2, L0787: 2, L0439: 2, L0747: 2, L0601: 2, S0218: 1, L0426: 1, S0116: 1, H0484: 1, H0393: 1, H0370: 1, H0178: 1, H0123: 1, H0030: 1, H0553: 1, L0055: 1, H0494: 1, L0763: 1, L0770: 1, L0639: 1, L0773: 1, L0648: 1, L0805: 1, L0666: 1, L0664: 1, H0593: 1, H0659: 1, S0378: 1, H0696: 1 and L0759: 1.			1-19, 88- 105, 151- 167
622	HPJAV04	862479	632	166 - 1227	2037	Gln-30 to Cys-35, Leu-50 to Gln-61, Gly-133 to Phe-143, Pro-145 to Glu-157, Asp-178 to Glu-184, Arg-241 to Gln-247, Pro-260 to Leu-267, Phe-305 to Gln-312.	AR055: 10, AR104: 9, AR039: 7, AR060: 7, AR061: 7, AR052: 5, AR089: 5, AR053: 5, AR096: 5, AR033: 5 H0556: 3, H0341: 2, H0144: 2, L0743: 2, S0436: 2, H0543: 2, H0295: 1, H0661: 1, S0046: 1, H0587:			61-88, 288-304, 334-350

623	HHFMA59	862567	633	249 - 749	2038	Arg-127 to Tyr-132.	1, H0333: 1, H0486: 1, H0013: 1, H0618: 1, H0009: 1, H0024: 1, T0010: 1, H0553: 1, H0551: 1, T0042: 1, S0150: 1, S0142: 1, S0422: 1, L0787: 1, H0519: 1, S0152: 1, H0521: 1, H0134: 1, L0740: 1, L0779: 1, S0434: 1, S0194: 1, S0276: 1 and H0422: 1.				67-85, 8- 26, 109- 125
624	HNFDV96	862665	634	276 - 2423	2039	Ser-39 to Val-46, His-50 to Ser-58, Cys-86 to Ile-91, Phe-106 to Gly-111, Cys-123 to Ala-131, Leu-154 to Glu-170, Leu-225 to Arg-235, Glu-288 to Leu-294, Pro-397 to Thr-402, Asp-411 to Glu-417, Arg-449 to Arg-455, Ile-531 to Thr-537, Pro-578 to Arg-587,	AR104: 46, AR089: 34, AR096: 33, AR052: 31, AR033: 31, AR039: 30, AR053: 25, AR055: 18, AR060: 14, AR061: 9 H0619: 1 and S3014: 1. AR089: 1, AR055: 1, AR061: 1, AR060: 0, AR053: 0, AR039: 0, AR052: 0, AR096: 0, AR033: 0 H0624: 1, H0306: 1, H0497: 1, H0271: 1, H0521: 1 and L0595: 1.			234-256	

625	HNTAI35	862671	635	145 - 516	2040	Ser-647 to Thr-656, Asp-670 to Ala-675, His-682 to Asn-688.	AR096: 18, AR089: 14, AR039: 10, AR104: 8, AR060: 7, AR033: 6, AR053: 5, AR052: 5, AR055: 3, AR061: 2 H0046: 7, H0521: 7, H0556: 6, H0551: 5, H0265: 4, S0212: 4, H0585: 3, H0599: 3, S0002: 3, H0522: 3, H0149: 2, S0040: 2, H0341: 2, H0586: 2, H0024: 2, H0266: 2, S0250: 2, H0622: 2, H0634: 2, L0596: 2, T0002: 1, H0656: 1, H0638: 1, H0125: 1, S0418: 1, S0358: 1, S0132: 1, H0619: 1, H0437: 1, H0415: 1, H0592: 1, H0642: 1, H0486: 1, T0040: 1, H0250: 1, H0575: 1, H0618: 1, S0474: 1, H0123: 1, H0050: 1, H0012: 1, H0014: 1, H0373: 1, H0286: 1, H0039: 1, H0135: 1, H0022: 1, T0042: 1, H0560: 1, H0561: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0378:			86-106, 19-36
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626	HCE3X63	862807	636	719 - 2422	2041	Ser-11 to Glu-17.			AR052: 3, AR053: 2, AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 0, AR033: 0, AR039: 0, AR104: 0	1			20-50, 206-229, 167-189, 77-103, 58-75, 128-144, 240-256
627	HCE2K01	862851	637	103 - 915	2042	Ala-12 to Glu-27, Pro-35 to Ser-43, Pro-70 to Gly-79, Ser-92 to Val-98, Pro-166 to Leu-175, Ser-234 to Thr-246.			AR104: 15, AR033: 15, AR055: 4, AR039: 3, AR052: 3, AR089: 2, AR060: 2, AR061: 2, AR053: 2, AR096: 1, H0052: 7, L0769: 7, L0741: 6, S0222: 3, S0031: 3, H0441: 2, S0049: 2, S0036: 2, L0366: 2, S0106: 2, S0110: 1, H0261: 1, S0346: 1, S0050: 1, S0038: 1, L0773: 1, L0384: 1, L0789: 1, H0521: 1, H0522: 1, L0742: 1, L0752: 1, L0758: 1 and S0260: 1.	12q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769,	100-130, 248-264, 142-158	

628	HJPCG05	862913	638	695 - 1072	2043	His-91 to Leu-97, Pro-108 to Gly-118, Leu-120 to Pro-126.	AR055: 19, AR053: 18, AR033: 15, AR052: 15, AR089: 12, AR039: 12, AR060: 10, AR061: 8, AR096: 6, AR104: 4 L0375: 3, H0575: 2, L0800: 2, L0794: 2, L0789: 2, H0556: 1, H0662: 1, S0418: 1, H0619: 1, H0549: 1, H0590: 1, H0052: 1, H0083: 1, H0266: 1, H0286: 1, H0644: 1, S0036: 1, H0433: 1, H0412: 1, H0413: 1, T0042: 1, S0144: 1, S0142: 1, S0344: 1, L0770: 1, L0761: 1, L0774: 1, H0518: 1, L0777: 1, L0758: 1 and H0665: 1.			601928, 602116, 602153	64-89, 3- 19
629	HOUFG48	863051	639	61 - 633	2044	Pro-10 to Leu-20, Asn-33 to Val-38.	AR055: 6, AR052: 5, AR033: 5, AR089: 5, AR053: 4, AR061: 4, AR060: 3, AR096: 3, AR039: 1, AR104: 1 L0752: 6, L0747: 5, L0438: 4, L0439: 4, S0007: 3, L0776: 3, H0686: 2,				115-134, 57-73

630	HCYBG68	863308	640	154 - 1260	2045	Leu-178 to Gly-191, Glu-225 to Thr-232,	S0040: 2, T0039: 2, H0052: 2, H0009: 2, H0031: 2, H0068: 2, L0769: 2, L0809: 2, L0665: 2, L0749: 2, L0757: 2, L0758: 2, L0590: 2, L0599: 2, L0595: 2, H0294: 1, S0376: 1, S0360: 1, H0580: 1, H0550: 1, H0587: 1, H0486: 1, H0013: 1, H0581: 1, L0471: 1, H0023: 1, S0362: 1, H0266: 1, H0290: 1, H0428: 1, H0038: 1, H0551: 1, H0412: 1, T0041: 1, T0042: 1, H0561: 1, S0144: 1, H0538: 1, H0529: 1, L0637: 1, L0372: 1, L0773: 1, L0662: 1, L0626: 1, L0768: 1, L0766: 1, L0803: 1, L0519: 1, H0701: 1, H0547: 1, H0659: 1, H0660: 1, H0651: 1, H0539: 1, S0380: 1, H0710: 1, H0521: 1, H0214: 1, H0478: 1, H0540: 1, L0742: 1, L0743: 1, L0750: 1, L0777: 1, L0731: 1, S0434: 1, L0592: 1 and H0543: 1.				139-159
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						Glu-247 to Ser-256, Ser-262 to Glu-274, Glu-280 to Gln-290.	AR089: 1, AR053: 1, AR039: 0, AR061: 0, AR104: 0 S0007: 3, S0010: 2, S0028: 2, L0366: 2, H0170: 1, H0583: 1, S0001: 1, S0282: 1, T0114: 1, H0244: 1, S0346: 1, H0318: 1, H0581: 1, H0320: 1, H0051: 1, S0051: 1, S6028: 1, H0416: 1, H0644: 1, H0068: 1, H0551: 1, L0776: 1, H0701: 1, H0520: 1, L0439: 1, L0777: 1, L0592: 1, L0594: 1 and S0242: 1.			
631	HDTBD83	863372	641	268 - 603	2046	Gly-16 to Arg-21.	AR033: 4, AR055: 2, AR089: 2, AR060: 1, AR096: 1, AR061: 1, AR104: 0, AR039: 0, AR052: 0, AR053: 0 H0052: 2 and H0486: 1.			79-95, 21- 37
632	HCDEG27	863396	642	35 - 355	2047	Glu-45 to Phe-53.	AR039: 81, AR053: 42, AR033: 38, AR055: 34, AR052: 33, AR096: 31, AR104: 29, AR089: 28, AR060: 25, AR061: 17 H0251: 6, L0770: 2, L0762: 1 and L0757: 1.			60-93, 80- 96
633	HBXDJ07	863541	643	124 -	2048	Glu-62 to Lys-68.	AR033: 10, AR104: 5.			1-20, 112-

				651	Asn-105 to Gly-113.	AR052: 3, AR096: 3, AR055: 2, AR053: 2, AR089: 1, AR061: 1, AR060: 1, AR039: 1 L0439: 6, S0222: 3, L0794: 3, H0052: 2, S6028: 2, S0038: 2, L0740: 2, L0756: 2, H0624: 1, H0171: 1, S6024: 1, H0013: 1, H0374: 1, H0050: 1, S0050: 1, H0051: 1, S0386: 1, H0144: 1, L0438: 1 and L0746: 1.			135, 77- 103	
634	HBKDA80	863586	644	71 - 676	2049	Gly-18 to Lys-25, Val-43 to Gly-48, Gly-56 to Arg-62.	AR104: 57, AR033: 49, AR061: 13, AR096: 12, AR089: 10, AR055: 9, AR060: 6, AR039: 4, AR052: 2, AR053: 1 L0748: 22, H0052: 19, S0036: 12, L0752: 10, L0439: 9, L0622: 8, S0051: 7, H0478: 7, L0623: 6, L0809: 6, L0747: 6, H0441: 5, H0599: 5, L0770: 5, L0666: 5, L0741: 5, L0743: 5, L0745: 5, S0049: 4, L0471: 4, L0794: 4, L0438: 4, S0330: 4, H0521: 4, L0742: 4, L0746: 4, L0485: 4, S0358: 3, H0687: 3,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100,	136-152

					S0038: 3, S0438: 3, L0774: 3, L0659: 3, H0539: 3, L0779: 3, S6024: 2, S0001: 2, S0356: 2, H0645: 2, S6026: 2, S0222: 2, S6014: 2, H0455: 2, H0586: 2, H0194: 2, H0051: 2, H0201: 2, S0388: 2, T0010: 2, S0364: 2, L0455: 2, H0068: 2, H0135: 2, H0264: 2, S0112: 2, L0371: 2, L0769: 2, L0638: 2, L3905: 2, L5566: 2, L0800: 2, L0803: 2, L0664: 2, S0310: 2, H0660: 2, L0612: 2, L0744: 2, L0756: 2, L0361: 2, H0171: 1, H0713: 1, L0393: 1, L0785: 1, S0029: 1, S0408: 1, H0722: 1, S0007: 1, H0393: 1, S0300: 1, H0351: 1, H0549: 1, H0550: 1, H0357: 1, H0592: 1, H0587: 1, S0280: 1, H0156: 1, H0597: 1, H0327: 1, H0046: 1, H0150: 1, H0009: 1, H0569: 1, H0014: 1, S0362: 1, L0163: 1, H0408: 1, H0188: 1, H0284: 1, H0615: 1, H0428: 1, H0673: 1, H0708: 1, S0366: 1,	235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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635	HSSDP38	863587	645	214 - 1188	2050	Gly-18 to Lys-25, Val-29 to Gly-34, Gly-42 to Arg-48, Leu-199 to Arg-204, Trp-220 to Asp-228, Asn-261 to Gln-268.	T0004: 1, L0351: 1, S0352: 1, S0440: 1, S0144: 1, S0344: 1, L0763: 1, L0500: 1, L5575: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0649: 1, L0804: 1, L0651: 1, L0805: 1, L0776: 1, L0542: 1, L0782: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, S0053: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, H0670: 1, H0522: 1, S0044: 1, H0555: 1, H0631: 1, S0432: 1, L0740: 1, L0750: 1, L0786: 1, L0755: 1, S0031: 1, H0445: 1, L0581: 1 and L0604: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900,	122-138
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5, L0745: 5, S0049: 4, L0471: 4, L0794: 4, L0438: 4, S0330: 4, H0521: 4, L0742: 4, L0746: 4, L0485: 4, S0358: 3, H0687: 3, S0038: 3, S0438: 3, L0774: 3, L0659: 3, H0539: 3, L0779: 3, S6024: 2, S0001: 2, S0356: 2, H0645: 2, S6026: 2, S0222: 2, S6014: 2, H0455: 2, H0586: 2, H0194: 2, H0051: 2, H0201: 2, S0388: 2, T0010: 2, S0364: 2, L0455: 2, H0068: 2, H0135: 2, H0264: 2, S0112: 2, L0371: 2, L0769: 2, L0638: 2, L3905: 2, L5566: 2, L0800: 2, L0803: 2, L0664: 2, S0310: 2, H0660: 2, L0612: 2, L0744: 2, L0756: 2, L0361: 2, H0171: 1, H0713: 1, L0393: 1, L0785: 1, S0029: 1, S0408: 1, H0722: 1, S0007: 1, H0393: 1, S0300: 1, H0351: 1, H0549: 1, H0550: 1, H0357: 1, H0592: 1, H0587: 1, S0280: 1, H0156: 1, H0597: 1, H0327: 1, H0046: 1, H0150: 1, H0009:	179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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636	HSSGL44	863654	646	1668 - 1982	2051	Ala-17 to Ser-27, Arg-42 to Ser-57, Thr-72 to Gly-85.	1, H0569: 1, H0014: 1, S0362: 1, L0163: 1, H0408: 1, H0188: 1, H0284: 1, H0615: 1, H0428: 1, H0673: 1, H0708: 1, S0366: 1, T0004: 1, L0351: 1, S0352: 1, S0440: 1, S0144: 1, S0344: 1, L0763: 1, L0500: 1, L5575: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0649: 1, L0804: 1, L0651: 1, L0805: 1, L0776: 1, L0542: 1, L0782: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, S0053: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, H0670: 1, H0522: 1, S0044: 1, H0555: 1, H0631: 1, S0432: 1, L0740: 1, L0750: 1, L0786: 1, L0755: 1, S0031: 1, H0445: 1, L0581: 1 and L0604: 1. AR055: 4, AR052: 4, AR096: 3, AR060: 3, AR033: 3, AR053: 3, AR089: 3, AR061: 2, AR104: 2, AR039: 0 L0439: 8, H0556: 6, L0766: 4, L0740: 4, S0420:				87-104
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[illegible]

637	HBODY10	863665	647	6 - 875	2052	Ala-13 to Gly-18.	1 and H0542: 1. AR096: 8, AR060: 7, AR089: 6, AR055: 6, AR052: 6, AR053: 5, AR033: 5, AR104: 4, AR061: 4, AR039: 0 L0777: 3, H0624: 2, S0366: 2, L0779: 2, L0759: 2, L0604: 2, H0171: 1, H0149: 1, H0729: 1, H0741: 1, L0622: 1, L0623: 1, H0546: 1, H0213: 1, S0364: 1, H0708: 1 and L0636: 1.				93-114, 185-203, 56-72, 256-272, 20-36, 116-132
638	HDFUB58	863687	648	1229 - 1714	2053	Ser-20 to Lys-33, Glu-100 to Thr-111.	AR104: 5, AR033: 4, AR096: 3, AR089: 3, AR053: 3, AR055: 2, AR060: 2, AR061: 1, AR052: 1, AR039: 0 L0748: 9, L0777: 3, L0438: 2, L0751: 2, L0362: 2, H0381: 1, S0282: 1, S0045: 1, L0717: 1, L0037: 1, H0567: 1, L0471: 1, S6028: 1, H0163: 1, H0040: 1, H0100: 1, L0639: 1, L0775: 1, L0375: 1, L0776: 1, S0374: 1, S0330: 1, L0741: 1, L0743: 1, L0744: 1, L0439: 1 and L0756: 1.				108-134, 78-94, 139-155

639	HSMBE70	863709	649	586 - 900	2054	Gly-2 to Gly-10, Ser-56 to Cys-62.	AR096: 5, AR033: 4, AR053: 4, AR104: 4, AR052: 3, AR089: 3, AR060: 2, AR055: 1, AR061: 1, AR039: 0 H0295: 4, L0731: 4, S0040: 2, H0688: 2, L0775: 2, L0659: 2, H0521: 2, L0744: 2, H0713: 1, H0294: 1, S0298: 1, H0370: 1, H0586: 1, H0599: 1, S0364: 1, H0059: 1, L0769: 1, L0646: 1, L0764: 1, L0363: 1, L0776: 1, L0749: 1 and H0668: 1.			82-99, 63-79
640	HEPAA94	863718	650	91 - 405	2055		AR039: 2, AR055: 2, AR104: 1, AR033: 1, AR060: 1, AR053: 0, AR089: 0, AR061: 0, AR096: 0, AR052: 0 S0212: 5, L0776: 3, S0404: 3, S0045: 2, L0665: 2, H0670: 2, L0777: 2, L0757: 2, S0342: 1, S0418: 1, H0339: 1, H0013: 1, L0021: 1, H0318: 1, H0545: 1, H0150: 1, T0079: 1, H0594: 1, H0188: 1, H0687: 1, H0252: 1, H0644: 1, H0616: 1, H0413: 1, L0794: 1,	136350, 152760, 180100, 182900, 277700, 600617	8p11.2-p11.1	51-68, 24-40, 84-100

641	HH8CU86	863734	651	90 - 737	2056	Ser-29 to His-36.	L0766: 1, L0803: 1, L0657: 1, L0809: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, L0438: 1, H0658: 1, H0651: 1, L0743: 1, L0439: 1, L0758: 1, S0242: 1, S0194: 1 and S0021: 1.	6			188-204
642	HBXGQ49	863848	652	111 - 1058	2057	Gly-96 to Gly-102, Pro-114 to Trp-121.	AR039: 6, AR053: 5, AR052: 5, AR096: 5, AR089: 4, AR033: 4, AR104: 4, AR060: 3, AR055: 3, AR061: 2, L0766: 3, L0774: 3, S0126: 3, L0748: 3, H0551: 2, L0640: 2, L0770: 2, L0771: 2, L0649: 2, L0663: 2, L0740: 2, L0779: 2, L0731: 2, L0593: 2, H0542: 2, S0116: 1, S0420: 1, S0376: 1, S0360: 1, H0580: 1, H0497: 1, H0575: 1, H0581: 1, H0544: 1, H0050: 1, H0708: 1, H0714: 1, H0641: 1, L3904: 1, L0646: 1, L0642: 1, L0764: 1, L0666: 1, S0390: 1, L0745: 1, H0543: 1 and H0423: 1.				253-269

643	HCECL08	863887	653	207 - 992	2058	Leu-135 to Gly-145, Glu-189 to Phe-195, Cys-233 to His-239, Glu-283 to Thr-299.	AR096: 15, AR052: 9, AR055: 7, AR053: 6, AR039: 0, AR104: 0 H0051: 6, S0036: 4, L0770: 4, H0052: 3, L0769: 3, L0803: 3, S0010: 2, S0112: 2, S0282: 1, H0305: 1, H0261: 1, H0438: 1, S0346: 1, H0327: 1, H0046: 1, S0051: 1, H0100: 1, L0635: 1, L0741: 1 and S0260: 1.				
						Tyr-24 to His-32, Pro-38 to Ala-44, Pro-66 to Glu-75, His-111 to Gly-116, Tyr-139 to Ser-146, Thr-176 to Ser-181, Lys-239 to Lys-249.	AR055: 10, AR060: 6, AR033: 6, AR061: 5, AR096: 5, AR052: 4, AR089: 4, AR053: 4, AR039: 4, AR104: 3 L0740: 9, L0748: 6, L0803: 3, L0777: 3, H0556: 2, L0741: 2, L0746: 2, H0392: 1, H0052: 1, H0009: 1, H0012: 1, H0620: 1, T0067: 1, L0598: 1, L0770: 1, L0769: 1, L0805: 1, L0783: 1, L0809: 1, H0144: 1, L0745: 1, L0749: 1, L0759: 1, S0031: 1, L0608: 1, L0593: 1, L0595: 1 and H0352: 1.	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200,	211-239, 1-18, 156- 172	

644	HUCOT09	863914	654	5 - 1318	2059							AR033: 5, AR055: 5, AR096: 4, AR104: 3, AR052: 3, AR089: 3, AR060: 3, AR039: 2, AR061: 1, AR053: 1 L0748: 16, L0758: 10, L0754: 9, L0747: 9, L0751: 8, L0769: 6, L0806: 6, L0776: 6, L0439: 6, H0457: 5, H0494: 5, L0740: 5, H0599: 4, H0052: 4, L0662: 4, L0774: 4, L0757: 4, H0506: 4, S0418: 3, H0619: 3, H0586: 3, H0416: 3, H0622: 3, H0553: 3, H0560: 3, L0766: 3, L0659: 3, L0666: 3, L0665: 3, H0521: 3, L0485: 3, H0663: 2, S0358: 2, L0717: 2, H0261: 2, H0575: 2, S0474: 2, H0421: 2, H0251: 2, T0010: 2, H0266: 2, H0188: 2, H0135: 2, H0280: 2, S0142: 2, L0369: 2, L0764: 2, L0768: 2, L0803: 2, L0653:	600897, 601105, 601412, 601652, 602491	298-314
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645	HYBAF24	863934	655	31 - 510	2060	Cys-51 to Arg-76, Glu-122 to Gln-129.	1, L0523: 1, L0379: 1, L0657: 1, L0783: 1, H0144: 1, H0520: 1, H0690: 1, H0659: 1, H0670: 1, H0648: 1, S0378: 1, S0152: 1, S0332: 1, H0522: 1, H0696: 1, H0436: 1, S3012: 1, S0028: 1, L0744: 1, L0752: 1, S0394: 1, L0588: 1, L0608: 1, S0192: 1 and S0276: 1.							101-117
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646	HEMET46	863977	656	201 -	2061	Thr-36 to Gln-49,	1, L0002: 1, S0358: 1, H0437: 1, H0602: 1, T0109: 1, H0599: 1, H0036: 1, H0004: 1, H0318: 1, H0581: 1, H0421: 1, H0052: 1, H0046: 1, H0041: 1, L0471: 1, H0024: 1, L0163: 1, S0051: 1, H0083: 1, H0188: 1, H0252: 1, H0615: 1, L0483: 1, T0006: 1, H0598: 1, H0040: 1, T0041: 1, S0440: 1, S0150: 1, S0142: 1, S0344: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L4747: 1, L0772: 1, L0372: 1, L0771: 1, L0794: 1, L0499: 1, L0776: 1, L0655: 1, L0807: 1, L0657: 1, L0513: 1, L0382: 1, L0809: 1, L0787: 1, L0664: 1, H0690: 1, H0659: 1, H0670: 1, H0660: 1, H0710: 1, S0152: 1, H0696: 1, H0704: 1, H0555: 1, S0028: 1, L0741: 1, L0740: 1, L0755: 1, L0757: 1, L0758: 1, H0595: 1, L0485: 1, S0026: 1, H0216: 1, H0543: 1, H0422: 1 and S0424: 1.	AR060: 11, AR055: 8,				184-216,
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					983	Thr-56 to Thr-64, Thr-93 to Asp-99, Gln-120 to Lys-133, Asp-145 to Gly-152, Glu-174 to Ser-180, Ala-183 to Tyr-188, Cys-216 to Ser-237, His-253 to Asn-261.	AR033: 5, AR089: 5, AR053: 4, AR052: 4, AR061: 4, AR096: 4, AR104: 3, AR039: 1 L0759: 8, L0598: 5, L0588: 3, S0360: 2, S0045: 2, L0471: 2, H0412: 2, L0803: 2, L0774: 2, L0776: 2, L0740: 2, L0752: 2, L0599: 2, S0116: 1, H0662: 1, S0444: 1, S0046: 1, H0592: 1, H0587: 1, H0574: 1, H0244: 1, H0427: 1, H0050: 1, H0014: 1, H0674: 1, S0366: 1, H0433: 1, H0413: 1, H0623: 1, T0042: 1, UNKWN: 1, L0665: 1, S0330: 1, S3012: 1, L0777: 1, H0343: 1 and S0446: 1.				1-17
647	HFXJM86	863982	657	246 - 1757	2062		AR052: 62, AR053: 48, AR055: 35, AR096: 29, AR089: 20, AR104: 17, AR039: 14, AR060: 13, AR033: 13, AR061: 8 H0599: 5, H0619: 2, S0366: 2, S0282: 1, S0029: 1, H0735: 1, H0200: 1, H0373: 1 and S6028: 1.				248-273, 116-135, 73-92, 299-316, 361-377, 428-444, 459-475, 6-22, 137- 153, 384- 400

648	HDTHL37	864023	658	121 - 897	2063	Ile-50 to Lys-57, Thr-71 to Val-78, Asn-81 to Ala-91, Cys-99 to Gly-105, Ser-138 to Thr-150.	AR033: 7, AR089: 7, AR039: 7, AR052: 6, AR096: 5, AR060: 5, AR061: 4, AR104: 4, AR053: 4, AR055: 3 L0748: 11, L0769: 7, L0766: 7, L0666: 6, L0754: 6, L0779: 6, H0620: 5, L0483: 5, L0770: 5, L0764: 5, L0747: 5, L0759: 5, H0013: 4, H0012: 4, L0776: 4, L0749: 4, L0777: 4, L0755: 4, L0594: 4, S0418: 3, S0360: 3, S0408: 3, H0244: 3, S0440: 3, L0771: 3, L0375: 3, L0663: 3, L0664: 3, L0665: 3, L0751: 3, L0757: 3, H0650: 2, H0038: 2, T0042: 2, H0494: 2, L0761: 2, L0662: 2, L0806: 2, H0519: 2, H0682: 2, H0660: 2, L0439: 2, L0740: 2, L0750: 2, L0758: 2, L0596: 2, H0422: 2, H0170: 1, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0114: 1, H0657: 1, H0341: 1, H0663: 1, S0356: 1, S0358: 1, H0393: 1, H0261: 1, S0222: 1, H0431: 1,				240-259, 112-128, 201-217, 26-42
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649	HBJFE32	864093	659	338 - 868	2064	Leu-82 to Thr-97.	H0404: 1, H0586: 1, L0623: 1, H0486: 1, H0427: 1, H0156: 1, H0706: 1, H0318: 1, S0474: 1, H0251: 1, H0309: 1, H0263: 1, H0041: 1, H0197: 1, H0266: 1, H0328: 1, L0194: 1, H0644: 1, H0180: 1, L0055: 1, H0068: 1, H0591: 1, H0063: 1, H0413: 1, H0100: 1, H0625: 1, S0438: 1, S0150: 1, H0646: 1, S0144: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L0762: 1, L0763: 1, L0638: 1, L0667: 1, L0645: 1, L0648: 1, L0774: 1, L0775: 1, L0805: 1, L0654: 1, L0657: 1, L0659: 1, L0636: 1, L0518: 1, L0809: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, H0670: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, H0576: 1, S0434: 1, L0591: 1, L0592: 1, S0026: 1, L0600: 1 and H0352: 1.				54-70, 100-116
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650	HSLDY71	864179	660	77 - 769	2065	Thr-83 to Asn-92.	AR052: 8, AR053: 8, AR096: 8, AR061: 7 H0341: 2, S0045: 2, H0551: 2, H0556: 1, S0376: 1, H0619: 1, H0437: 1, H0601: 1, H0333: 1, H0485: 1, H0013: 1, H0635: 1, H0590: 1, H0318: 1, H0009: 1, H0266: 1, H0267: 1, S0003: 1, H0615: 1, H0644: 1, H0383: 1, H0068: 1, H0316: 1, H0116: 1, H0264: 1, H0561: 1, L0768: 1, L0794: 1, H0144: 1, H0436: 1, S0028: 1, L0744: 1, H0445: 1, H0542: 1 and S0424: 1.				138-154, 190-206, 119-135, 95-111, 159-175
						AR096: 5, AR039: 4, AR089: 4, AR055: 4, AR060: 3, AR053: 3, AR033: 3, AR052: 3, AR104: 2, AR061: 2 H0521: 3, L0600: 3, L0805: 2, L0666: 2, H0547: 2, H0445: 2, H0265: 1, H0556: 1, S0342: 1, H0713: 1, T0008: 1, S0049: 1, H0052: 1, L0471: 1, H0598: 1, H0551: 1, H0561: 1, L0768: 1, L0438: 1, H0555:					

651	HULFN21	864272	661	680 - 3	2066	Gly-45 to Pro-80, Pro-110 to Gly-116, Pro-118 to Ala-132, Ser-146 to Ala-151, Thr-153 to Ser-163, Gln-171 to Pro-177, Ser-196 to Pro-222.	1, S0028: 1, L0439: 1, L0779: 1, L0757: 1, S0436: 1 and L0601: 1. AR055: 20, AR033: 14, AR089: 12, AR061: 10, AR053: 10, AR052: 10, AR060: 7, AR096: 6, AR104: 2, AR039: 0 L0747: 15, L0731: 11, H0657: 7, H0032: 7, L0752: 7, L0766: 6, L0775: 6, L0740: 6, L0749: 6, H0341: 5, H0318: 5, H0617: 5, L0755: 5, H0484: 4, S0360: 4, S0408: 4, S0222: 4, H0087: 4, L0769: 4, L0804: 4, L0776: 4, H0659: 4, L0742: 4, L0748: 4, L0751: 4, L0754: 4, H0661: 3, S0410: 3, H0486: 3, H0266: 3, L0803: 3, H0144: 3, H0547: 3, H0658: 3, S3014: 3, L0758: 3, L0759: 3, H0543: 3, H0265: 2, H0685: 2, S0134: 2, S0116: 2, H0638: 2, S0418: 2, S0358: 2, H0392: 2, L0623: 2, H0013: 2, H0156: 2, H0530: 2, S0051: 2, H0083: 2, H0169: 2, H0616: 2, H0059:				83-110, 1- 17
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652	HCRPE50	864273	662	18 - 692	2067	Pro-5 to Arg-12, Gly-54 to Pro-89, Glu-125 to Ala-131, Ser-145 to Ala-150, Thr-152 to Ser-162,	1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, H0598: 1, H0135: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0268: 1, H0413: 1, H0100: 1, H0494: 1, H0560: 1, H0396: 1, H0561: 1, H0366: 1, S0294: 1, S0440: 1, H0509: 1, H0641: 1, S0144: 1, S0422: 1, S0002: 1, L0371: 1, L0631: 1, L0796: 1, L0639: 1, L0372: 1, L0773: 1, L0386: 1, L0774: 1, L0378: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, L5623: 1, L0663: 1, H0520: 1, H0519: 1, H0689: 1, H0670: 1, H0672: 1, H0651: 1, H0539: 1, H0518: 1, H0522: 1, H0696: 1, S0118: 1, L0745: 1, L0756: 1, L0780: 1, L0757: 1, H0595: 1, S0434: 1, L0588: 1, L0592: 1, H0667: 1, H0542: 1 and S0462: 1. AR033: 17, AR055: 16, AR089: 13, AR061: 12, AR052: 9, AR096: 9, AR053: 8, AR060: 8, AR104: 8, AR039: 3					92-119
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Gln-170 to Pro-176, Ser-195 to Lys-211.	L0747: 8, L0779: 7, H0657: 6, L0766: 6, L0751: 6, L0731: 6, L0794: 5, L0740: 5, H0341: 4, H0484: 4, H0318: 4, H0617: 4, H0087: 4, L0769: 4, H0659: 4, L0742: 4, L0754: 4, L0752: 4, H0661: 3, S0360: 3, S0410: 3, L0776: 3, H0658: 3, H0685: 2, S0134: 2, S0116: 2, S0358: 2, S0408: 2, S0222: 2, H0392: 2, H0486: 2, H0013: 2, H0156: 2, H0530: 2, S0051: 2, H0169: 2, H0616: 2, H0059: 2, S0438: 2, L0772: 2, L0521: 2, L0775: 2, L0805: 2, L0659: 2, L0526: 2, L0518: 2, L0663: 2, H0144: 2, H0690: 2, S0378: 2, H0696: 2, L0743: 2, L0749: 2, L0750: 2, L0777: 2, L0596: 2, H0352: 2, H0170: 1, H0265: 1, H0295: 1, H0483: 1, H0255: 1, H0663: 1, H0306: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S0046: 1, H0370: 1, H0333: 1, L0623: 1, H0485: 1, T0109: 1, S0010:					
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				1, S0049: 1, H0251: 1, H0327: 1, H0546: 1, H0545: 1, H0150: 1, H0567: 1, H0570: 1, H0123: 1, H0081: 1, H0012: 1, H0620: 1, H0014: 1, H0373: 1, S0388: 1, T0010: 1, H0083: 1, H0510: 1, H0594: 1, H0266: 1, H0292: 1, H0688: 1, H0428: 1, H0604: 1, H0031: 1, H0644: 1, H0606: 1, L0055: 1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, H0135: 1, H0268: 1, H0080: 1, H0100: 1, H0494: 1, H0396: 1, H0561: 1, H0366: 1, S0294: 1, S0440: 1, H0509: 1, H0641: 1, S0144: 1, S0422: 1, H0529: 1, L0369: 1, L0371: 1, L0770: 1, L0372: 1, L0764: 1, L0768: 1, L0386: 1, L0381: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0655: 1, L0657: 1, L0809: 1, L0788: 1, H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0670: 1, H0672: 1, H0651: 1, H0539: 1, S0118: 1, S3014: 1, S0206: 1, L0745:								
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653	HDTLL66	864279	663	581 - 898	2068	Met-1 to Lys-14, Lys-19 to Cys-25, Pro-27 to Tyr-36, Asn-70 to Lys-78, Leu-96 to Trp-106.	1, L0780: 1, L0758: 1, L0759: 1, H0595: 1, S0434: 1, L0588: 1, H0653: 1, S0276: 1, H0542: 1, H0543: 1 and S0462: 1. AR055: 22, AR033: 19, AR061: 16, AR060: 15, AR089: 14, AR052: 9, AR053: 8, AR039: 5, AR096: 5, AR104: 5				36-52, 79- 95, 54-70
654	HWDAF64	864349	664	75 - 1061	2069	Pro-34 to Cys-39, Thr-155 to Thr-173, Gln-178 to Arg-183, His-209 to Ala-215, Ser-217 to Ser-223, Glu-244 to Pro-250.	AR039: 1, AR096: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 1, AR053: 0, AR104: 0, AR052: 0, AR055: 0 L0769: 3, L0439: 3, L0415: 2, H0255: 2, L0770: 2, L0774: 2, L0663: 2, L0665: 2, L0438: 2, L0777: 2, L0731: 2, L0605: 2, H0580: 1, S0045: 1, S0222: 1, H0441: 1, H0370: 1, H0600: 1, H0333: 1, H0574: 1, H0618: 1, L0738: 1, H0135: 1, H0551: 1, H0413: 1, H0059: 1, H0646: 1, H0538: 1, L0763: 1, L0648: 1, L0766: 1, L0378: 1,				223-240, 277-293, 100-116, 185-201

655	HETJF10	864357	665	25 - 393	2070	Lys-116 to Thr-123.	L0809: 1, L4501: 1, H0593: 1, H0689: 1, H0658: 1, S0432: 1 and S0031: 1. AR089: 4, AR033: 3, AR061: 3, AR060: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR053: 0, AR104: 0 S0342: 1, H0484: 1, S0358: 1, S6022: 1, H0046: 1, L0438: 1, H0593: 1, S0037: 1, L0439: 1 and L0759: 1.				94-114, 66-82, 15- 31
656	HBAGJ74	864391	666	10 - 375	2071	Met-1 to Leu-6, Gly-15 to Gln-22.	AR096: 4, AR039: 4, AR089: 3, AR052: 3, AR053: 3, AR060: 2, AR055: 2, AR033: 2, AR104: 2, AR061: 2 H0411: 2				91-108, 25-41, 52- 68
657	HT5EJ85	864392	667	45 - 551	2072	Pro-10 to Thr-18, Cys-22 to Gly-28, Arg-46 to Arg-51, Pro-53 to Tyr-58.	AR055: 8, AR033: 7, AR052: 7, AR104: 6, AR096: 6, AR060: 5, AR061: 5, AR053: 5, AR089: 5, AR039: 5 H0584: 4, L0783: 4, L0809: 4, L0758: 4, L0769: 3, L0439: 3, H0167: 2, H0295: 2, H0484: 2, H0411: 2, L0764: 2, L0662: 2,				61-80, 88- 104

658	HKAKL77	864545	668	25 - 519	2073	Met-1 to Arg-12, Asp-25 to Thr-34, Ala-37 to Pro-46, Leu-72 to Ser-79.	L0768: 2, L0438: 2, L0755: 2, L0601: 2, L0603: 2, H0294: 1, S0218: 1, H0657: 1, H0656: 1, L0785: 1, H0341: 1, H0661: 1, S0354: 1, L0717: 1, H0052: 1, H0544: 1, H0545: 1, H0510: 1, H0615: 1, H0628: 1, H0181: 1, H0038: 1, H0059: 1, H0130: 1, L0763: 1, L0770: 1, L0761: 1, L0644: 1, L0773: 1, L0766: 1, L0774: 1, L0378: 1, L0807: 1, L0659: 1, L0666: 1, L0664: 1, S0374: 1, T0068: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, H0539: 1, H0521: 1, H0696: 1, H0444: 1 and H0543: 1.					78-104, 142-164, 116-135, 52-68
							AR104: 46, AR033: 35, AR096: 29, AR052: 22, AR053: 15, AR089: 14, AR039: 13, AR060: 9, AR055: 4, AR061: 2 L0438: 2, L0748: 2, H0422: 2, H0664: 1, S0354: 1, H0619: 1, H0549: 1, H0431: 1, H0013: 1, H0156: 1, S0010: 1, H0123: 1, H0622: 1, T0023: 1, H0553:					

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659	HCFBY67	864566	669	38 - 403	2074	Ile-33 to Asp-46, Pro-51 to Cys-56, Gly-71 to Gly-81.		AR033: 15, AR089: 13, AR053: 9, AR052: 9, AR060: 8, AR055: 7, AR061: 7, AR096: 2, AR039: 0 S0136: 7, S0356: 2, S0410: 2, H0486: 2, H0672: 2, H0422: 2, H0170: 1, H0657: 1, H0692: 1, H0254: 1, H0402: 1, H0305: 1, S0358: 1, H0619: 1, L0717: 1, H0406: 1, H0599: 1, S0010: 1, T0115: 1, H0545: 1, S0051: 1, H0617: 1, H0264: 1, H0100: 1, L0659: 1, L0789: 1, L0665: 1, H0519: 1, H0414: 1, S0406: 1 and H0352: 1.				80-104	
660	HUCNL85	864609	670	270 - 899	2075	Gln-11 to Lys-21, Arg-119 to Ser-124.		AR039: 196, AR096: 179, AR052: 167, AR053: 140, AR089: 132, AR060: 86, AR104: 71, AR033: 59,				71-89, 38- 54	

661	HSDIW17	864772	671	357 - 884	2076			AR055: 35, AR061: 23 H0521: 5, H0370: 3, L0439: 3, H0341: 2, S0420: 2, H0592: 2, H0087: 2, L0792: 2, H0519: 2, S0418: 1, H0619: 1, H0393: 1, S0278: 1, H0392: 1, H0600: 1, H0586: 1, H0497: 1, S0049: 1, H0544: 1, L0471: 1, H0071: 1, H0083: 1, H0266: 1, H0288: 1, H0286: 1, S0036: 1, H0494: 1, S0150: 1, H0593: 1, H0539: 1 and L0759: 1.				117-141, 3-30, 39- 60, 96- 114, 148- 166, 73-89
662	HHETS46	864808	672	233 - 574	2077			AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR055: 2, AR060: 1, AR104: 1, AR033: 1, AR061: 1, AR039: 0 S0050: 1, S0028: 1 and S0260: 1. AR052: 3, AR053: 3, AR096: 2, AR033: 2, AR089: 2, AR039: 1, AR055: 1, AR061: 1, AR060: 1, AR104: 1 L0757: 6, L0775: 4, L0731: 4, H0421: 3, L0774: 3, L0758: 3, S0040: 2,				56-72

663	HAPSD53	864818	673	93 - 1106	2078	Asn-9 to Thr-17, Ala-25 to Ser-36, Asn-66 to Tyr-75, Lys-123 to Tyr-145, Asn-154 to Phe-161, Ser-218 to Ala-228, Pro-240 to Ser-247, Thr-273 to Phe-278,	AR055: 8, AR033: 6, AR089: 5, AR052: 5, AR053: 5, AR061: 4, AR060: 4, AR096: 3, AR104: 3, AR039: 0 L0439: 5, L0794: 4, H0253: 3, L0766: 3, H0618: 2, L0769: 2, L0800: 2,	S0376: 2, T0048: 2, L0764: 2, L0809: 2, H0682: 2, S0028: 2, L0748: 2, L0755: 2, L0597: 2, L0588: 2, L0590: 2, H0543: 2, H0170: 1, T0049: 1, S0348: 1, S0420: 1, S0045: 1, S0046: 1, H0411: 1, T0104: 1, L0623: 1, H0486: 1, S0280: 1, H0599: 1, H0575: 1, H0581: 1, S0049: 1, H0183: 1, H0545: 1, H0266: 1, H0288: 1, H0628: 1, H0617: 1, H0090: 1, H0268: 1, H0413: 1, S0210: 1, L0762: 1, L0763: 1, L0770: 1, L0768: 1, L0663: 1, H0690: 1, H0435: 1, H0658: 1, S0380: 1, S0152: 1, H0555: 1, H0436: 1, L0749: 1, L0777: 1, L0753: 1, L0362: 1 and H0423: 1.				84-107
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664	HAMFW6 6	864987	674	158 - 469	2079	Ala-301 to Pro-315, Arg-330 to Ala-338.	L0659: 2, L0789: 2, L0744: 2, L0749: 2, L0758: 2, H0265: 1, H0556: 1, S0360: 1, S0045: 1, S0222: 1, H0592: 1, H0069: 1, H0575: 1, H0318: 1, H0052: 1, H0083: 1, H0615: 1, H0038: 1, H0413: 1, H0494: 1, L0763: 1, L0770: 1, L0771: 1, L0662: 1, L0803: 1, L0378: 1, L0653: 1, L0629: 1, L0809: 1, L0666: 1, L0664: 1, L0438: 1, L0743: 1, L0754: 1, L0747: 1, L0750: 1, L0779: 1, L0777: 1, L0731: 1, L0596: 1, L0588: 1, L0605: 1 and H0352: 1.						
							AR053: 3, AR052: 3, AR033: 2, AR096: 2, AR089: 2, AR055: 2, AR104: 1, AR060: 1, AR061: 0, AR039: 0 L0754: 12, S0410: 10, L0766: 9, L0591: 7, L0748: 4, L0752: 4, H0423: 4, H0556: 3, S0360: 3, L0646: 3, L0527: 3, L0596: 3, H0170: 2, H0265: 2, S0114: 2, S0218: 2, H0266: 2.						58-83

665	HTJMU48	865019	675	20 - 1015	2080	Gly-32 to Asn-51, Trp-72 to Ala-83,	H0615: 2, H0056: 2, H0560: 2, H0561: 2, L0803: 2, L0782: 2, H0547: 2, H0134: 2, H0436: 2, L0756: 2, H0445: 2, L0362: 2, H0543: 2, L0002: 1, H0650: 1, S0418: 1, H0208: 1, S0046: 1, S0476: 1, H0619: 1, H0437: 1, H0550: 1, T0114: 1, H0013: 1, T0048: 1, H0318: 1, L0109: 1, H0050: 1, L0471: 1, S0051: 1, H0083: 1, H0328: 1, H0622: 1, H0604: 1, H0031: 1, H0591: 1, H0551: 1, H0268: 1, H0623: 1, H0100: 1, H0132: 1, L0763: 1, L0667: 1, L0388: 1, L0804: 1, L0776: 1, L0606: 1, L0657: 1, L0659: 1, L0542: 1, L0518: 1, L0809: 1, L0791: 1, L0792: 1, L0793: 1, H0519: 1, H0682: 1, H0648: 1, S0330: 1, S0152: 1, S0406: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, L0480: 1, H0542: 1 and H0506: 1.	19q13.2- q13.3	107741, 113900,	52-70
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							Thr-137 to Cys-145, Ser-157 to Gly-162, His-176 to Ala-183, Lys-199 to Asn-210, Arg-225 to Gly-230, Asp-248 to Val-254.	AR055: 4, AR052: 3, AR089: 3, AR060: 3, AR104: 2, AR061: 2		122720, 122720, 126340, 126391, 130410, 134790, 138570, 160900, 164731, 173850, 207750, 248600, 258501, 600040, 602225, 602225		
666	HAUAE93	865020	676	73 - 684	2081	Gln-3 to Trp-9, Glu-15 to Asp-25, Asn-59 to Ser-69, Ser-138 to Tyr-145, Glu-147 to Tyr-153.	AR055: 11, AR033: 9, AR104: 9, AR060: 7, AR061: 6, AR052: 6, AR039: 6, AR089: 5, AR096: 4, AR053: 4	19q13.2- q13.3	107741, 113900, 122720, 122720, 126340, 126391, 130410, 134790, 138570, 160900, 164731, 173850, 207750, 248600.	72-93, 34- 57, 160- 179, 96- 116, 185- 201		

667	HAICK45	865026	677	234 - 1376	2082	Met-1 to Phe-9, Gln-16 to Gly-25, Val-42 to Thr-71, Asn-92 to Arg-100, Pro-107 to Lys-117, Leu-153 to Leu-163, Phe-176 to Trp-182, Arg-184 to Gln-192, Glu-250 to Gly-257, Phe-266 to Lys-272.	AR055: 7, AR052: 6, AR096: 5, AR060: 5, AR053: 5, AR033: 5, AR089: 4, AR061: 4, AR104: 3, AR039: 2 L0748: 9, L0794: 6, L0766: 6, L0439: 6, H0574: 3, H0046: 3, H0040: 3, L0662: 3, L0803: 3, L0740: 3, L0747: 3, H0423: 3, H0624: 2, S0358: 2, H0561: 2, L0598: 2, L0520: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0106: 2, H0543: 2, H0171: 1, S0134: 1, S0218: 1, S0408: 1, S0132: 1, S0300: 1, H0411: 1, S0222: 1, L0623: 1, H0013: 1, L0021: 1, H0575: 1, H0581: 1, H0545: 1, L0163: 1, H0083: 1, H0032: 1, H0090: 1, H0551: 1, H0264: 1, H0647: 1, H0529: 1, L0770: 1, L0642: 1, L0768: 1, L0364: 1, L0649: 1, L0790: 1, L0666: 1,	258501, 600040, 602225, 602225	219-235, 318-334
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668	HBJKI39	865163	678	234 - 536	2083	Arg-5 to Lys-11, Thr-48 to Ile-53.	L0663: 1, H0144: 1, H0547: 1, H0684: 1, H0648: 1, H0436: 1, H0478: 1, L0590: 1, L0608: 1, S0026: 1, S0276: 1, S0424: 1 and H0677: 1. AR055: 13, AR033: 7, AR060: 7, AR061: 7, AR053: 6, AR052: 6, AR089: 5, AR096: 5, AR039: 3, AR104: 3 L0777: 9, L0758: 6, H0424: 4, L0770: 4, H0341: 3, H0617: 3, L0749: 3, L0757: 3, H0661: 2, S0358: 2, H0318: 2, S0049: 2, H0598: 2, H0413: 2, L0763: 2, L0766: 2, L0775: 2, L0789: 2, H0696: 2, L0744: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, H0170: 1, H0484: 1, S0354: 1, S0046: 1, S0132: 1, H0587: 1, H0331: 1, H0632: 1, H0250: 1, L0021: 1, S0010: 1, H0581: 1, H0085: 1, H0597: 1, H0081: 1, H0012: 1, H0015: 1, H0615: 1, L0142: 1, H0169: 1, H0163: 1, H0616: 1, H0059: 1,					58-80, 18- 38
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669	HAGHY26	865168	679	257 - 646	2084	Gln-34 to Leu-40, Thr-70 to Gly-92.	<p>H0561: 1, H0633: 1, S0144: 1, S0142: 1, S0210: 1, L0769: 1, L0521: 1, L0768: 1, L0794: 1, L0774: 1, L0375: 1, L0806: 1, L0629: 1, L0659: 1, L0666: 1, S0374: 1, H0689: 1, H0660: 1, H0672: 1, S3012: 1, L0748: 1, L0740: 1, L0755: 1, L0603: 1, H0665: 1, S0192: 1 and H0542: 1.</p> <p>AR096: 1, AR060: 1, AR089: 1, AR053: 1, AR039: 1, AR061: 0, AR052: 0, AR033: 0, AR104: 0, AR055: 0, H0052: 64, S0010: 22, L0438: 15, S0222: 13, S0346: 12, S6028: 12, L0366: 10, H0261: 9, T0010: 9, S0036: 9, S0049: 7, H0144: 7, L0439: 7, S0300: 6, L0592: 6, L0749: 5, H0438: 4, H0156: 4, S0051: 4, L0686: 4, S0007: 3, S6026: 3, H0194: 3, L0776: 3, S0028: 3, L0750: 3, L0753: 3, L0759: 3, L0589: 3, S6024: 2, H0441: 2, H0013: 2, H0390: 2,</p>					4-21, 110-126, 46-62
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670	HCLSJ87	865172	680	40 - 498	2085	Pro-33 to Ser-41, Trp-65 to Ile-72.	H0051: 2, S0388: 2, L0768: 2, L0779: 2, L0684: 2, L0594: 2, L0411: 1, H0170: 1, S0400: 1, S0356: 1, S6016: 1, H0455: 1, N0009: 1, L2250: 1, N0006: 1, H0567: 1, L0471: 1, H0201: 1, L0455: 1, S0038: 1, S0386: 1, L0370: 1, L0638: 1, L0630: 1, L0363: 1, L0774: 1, L0657: 1, S0126: 1, H0696: 1, L0745: 1, L0755: 1, L0758: 1, L0688: 1, S0106: 1, H0667: 1, S0412: 1 and S0021: 1.					109-130
671	HJBAQ50	865176	681	39 - 404	2086		AR039: 2, AR052: 1, AR104: 1, AR060: 1, AR089: 1, AR033: 0, AR053: 0, AR061: 0, AR096: 0, AR055: 0 AR096: 3, AR033: 1, AR060: 1, AR052: 1, AR089: 1, AR061: 1, AR039: 0, AR053: 0, AR104: 0, AR055: 0 L0439: 6, L0438: 3, S0222: 2, H0271: 2, L0758: 2, S0001: 1, H0441: 1,					80-97

672	HTELJ31	865259	682	332 - 808	2087	Trp-7 to Gln-15.	S0010: 1, H0052: 1, S0050: 1, S0366: 1, T0042: 1, S0428: 1 and H0547: 1. AR061: 6, AR055: 5, AR033: 4, AR060: 4, AR053: 3, AR096: 3, AR089: 3, AR052: 3, AR039: 0 L0769: 7, L0754: 7, L0748: 6, L0777: 6, L0759: 5, L0803: 4, L0747: 4, H0041: 3, L0775: 3, S0420: 2, S0358: 2, H0013: 2, H0427: 2, L0794: 2, L0804: 2, L0659: 2, L0789: 2, L0751: 2, L0749: 2, L0752: 2, L0587: 2, L0599: 2, L0603: 2, H0255: 1, S0356: 1, S0045: 1, H0411: 1, H0441: 1, H0009: 1, H0081: 1, H0024: 1, H0014: 1, T0006: 1, H0616: 1, L0536: 1, L0770: 1, L0638: 1, L0761: 1, L0771: 1, L0662: 1, L0767: 1, L0774: 1, L0375: 1, L0653: 1, L0633: 1, L0629: 1, L0636: 1, L0783: 1, L0666: 1, L0665: 1, S0052: 1, H0672: 1, H0436: 1, L0758: 1, S0260:				95-111, 38-54, 77-93
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673	HPJBE61	865275	683	55 - 495	2088	Asp-12 to Pro-17, Ser-59 to Glu-66, Leu-102 to Gly-119, Pro-130 to Trp-143.	1, L0581: 1, L0604: 1, L0595: 1, L0361: 1 and S0192: 1. AR055: 11, AR096: 7, AR061: 6, AR039: 6, AR052: 5, AR060: 5, AR033: 5, AR089: 4, AR053: 4, AR104: 3 L0751: 7, L0758: 5, L0766: 4, H0250: 3, H0556: 2, H0544: 2, L0769: 2, L0747: 2, H0422: 2, H0265: 1, S0114: 1, S0134: 1, S0116: 1, H0663: 1, S0132: 1, H0586: 1, H0069: 1, H0427: 1, H0309: 1, H0150: 1, H0041: 1, H0510: 1, H0594: 1, S0022: 1, H0606: 1, S0036: 1, H0087: 1, T0042: 1, H0494: 1, L0475: 1, S0438: 1, H0641: 1, S0422: 1, L0771: 1, L0662: 1, L0655: 1, L0783: 1, L0792: 1, L0663: 1, H0672: 1, H0539: 1, S0152: 1, H0187: 1, L0750: 1, H0445: 1, S0434: 1, H0542: 1 and S0424: 1.				15-47, 71- 102
674	HLTCU22	865293	684	47 - 730	2089	Ser-83 to Gly-88,	AR052: 66, AR053: 56, S0424: 1.				178-196,

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675	HE8DZ49	865322	685	300 - 1565	2090	Lys-20 to Ser-27, Met-62 to Asp-75, Asp-85 to Gln-94, Glu-135 to Arg-160, Asn-195 to Glu-202, Ser-291 to Ser-298, Thr-314 to Leu-332, Pro-342 to Ser-351, Glu-357 to Arg-365.	1, L0756: 1, L0777: 1, L0759: 1, L0596: 1, L0589: 1, L0591: 1, L0599: 1, L0595: 1, L0601: 1, S0026: 1, H0542: 1, S0042: 1 and S0424: 1. AR096: 18, AR053: 15, AR033: 14, AR052: 14, AR060: 14, AR055: 13, AR089: 11, AR104: 10, AR061: 6, AR039: 5 L0731: 9, L0803: 8, L0749: 8, L0748: 5, L0439: 5, L0756: 4, L0759: 4, H0581: 3, L0766: 3, L0747: 3, H0013: 2, H0427: 2, H0052: 2, H0251: 2, H0050: 2, L0794: 2, L0789: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0134: 1, S0442: 1, S0358: 1, H0411: 1, H0261: 1, H0431: 1, H0455: 1, H0574: 1, H0486: 1, S0010: 1, H0439: 1, H0569: 1, H0014: 1, H0375: 1, H0124: 1, S0036: 1, H0038: 1, S0210: 1, L0371: 1, L0521: 1, L0774: 1, L0809: 1, S0374: 1, L0438: 1, H0696: 1, S0044: 1,				366-396
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676	HEGAC86	865369	686	511 - 858	2091	Met-1 to Ala-13, Gly-29 to Trp-34, Pro-36 to Ala-42, Ser-70 to Cys-75.	H0436: 1, S0390: 1, L0750: 1, L0752: 1, S0276: 1, H0543: 1 and H0423: 1. AR055: 9, AR033: 7, AR060: 4, AR089: 4, AR052: 4, AR061: 4, AR096: 3, AR053: 3, AR039: 1, AR104: 0 L0776: 3, L0758: 3, L0764: 2, L0803: 2, L0805: 2, H0522: 2, L0748: 2, L0777: 2, H0550: 1, L0468: 1, S0280: 1, S0010: 1, L0471: 1, L0804: 1, L0657: 1, L0665: 1, S0126: 1, L0743: 1, L0750: 1, L0756: 1 and L0780: 1.	16q22	103850, 114835, 121360, 217800, 218030	90-106
677	HOUDS89	866090	687	20 - 559	2092	Glu-2 to Arg-14, Tyr-134 to Asp-140, Gln-151 to Asn-158.	AR052: 9, AR096: 7, AR060: 5, AR089: 5, AR053: 5, AR039: 4, AR055: 4, AR033: 4, AR104: 3, AR061: 3 L0769: 6, L0809: 4, H0585: 3, H0617: 3, H0181: 2, L0763: 2, L0768: 2, L0803: 2, L0805: 2, L0789: 2, S0040: 1, H0282: 1, L0796: 1, L0800: 1, L0794: 1, L0653: 1, L0776: 1,			46-72, 80- 98, 111- 127, 16-32

678	HCEVF41	866297	688	172 - 1149	2093	Gln-49 to Glu-54, Gln-67 to Ile-74.	L0792: 1, L0793: 1, H0576: 1 and L0759: 1. AR039: 7, AR053: 5, AR096: 5, AR104: 3, AR089: 3, AR061: 3, AR060: 3, AR033: 2, AR052: 1, AR055: 1 H0618: 9, L0758: 9, H0253: 5, H0620: 3, L0439: 3, L0747: 3, H0255: 2, S0356: 2, H0617: 2, L0770: 2, S0028: 2, L0756: 2, L0361: 2, H0624: 1, S0040: 1, H0295: 1, H0656: 1, S0358: 1, S0444: 1, S0360: 1, S0045: 1, H0261: 1, S0222: 1, H0392: 1, H0085: 1, H0597: 1, H0545: 1, H0150: 1, H0009: 1, H0012: 1, H0606: 1, H0165: 1, H0598: 1, H0135: 1, H0272: 1, S0448: 1, L0644: 1, L0764: 1, L0767: 1, L0806: 1, L0809: 1, L0664: 1, S0374: 1, S0126: 1, H0670: 1, H0696: 1, S0037: 1, L0742: 1, L0740: 1, L0750: 1, L0777: 1, L0780: 1, L0731: 1, S0011: 1, H0667: 1, S0398: 1 and S0462: 1.				126-150, 274-300, 155-174, 18-39, 202-226, 1-17, 92- 108, 243- 259
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679	HPWBO25	866302	689	62 - 694	2094	Pro-72 to Met-78.	AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR039: 0, AR061: 0, AR096: 0, AR055: 0, AR052: 0, AR104: 0 L0604: 2, H0255: 1, H0018: 1, S0366: 1, S0044: 1, S0037: 1, S0028: 1 and S0031: 1.			150-183, 96-135, 76-95, 117-135, 54-70
680	HSKNJ56	866374	690	15 - 593	2095	Leu-37 to Lys-43, Pro-177 to Thr-184.	AR061: 3, AR096: 3, AR033: 2, AR060: 1, AR089: 1, AR052: 1, AR055: 1, AR104: 0, AR039: 0, AR053: 0 L0439: 5, L0435: 2, H0624: 1, S3012: 1, S3014: 1, L0747: 1 and L0749: 1.			103-123, 161-177
681	HSSKF43	866388	691	118 - 744	2096		AR089: 8, AR096: 7, AR104: 7, AR055: 6, AR060: 6, AR039: 6, AR052: 6, AR033: 5, AR053: 5, AR061: 3 L0665: 3, L0598: 2, L0519: 2, L0663: 2, L0754: 2, L0747: 2, H0265: 1, S0134: 1, H0640: 1, H0409: 1, H0581: 1, L0471: 1, H0135: 1, L0435: 1, H0509: 1, L0800: 1, L0803: 1,			84-109, 148-171, 6-24, 27- 43, 174- 190, 192- 208

682	HSKJK72	866398	692	13 - 429	2097	Gln-35 to Gly-45, Cys-113 to Val-123.	S0374: 1, L0438: 1, H0520: 1 and L0592: 1. AR055: 9, AR060: 6, AR052: 6, AR089: 5, AR061: 5, AR033: 5, AR053: 4, AR096: 4, AR039: 2, AR104: 2 H0545: 1 and S3014: 1.			61-82
683	HACBC20	866413	693	291 - 635	2098		AR052: 11, AR096: 6, AR053: 5, AR089: 5, AR060: 4, AR033: 4, AR061: 4, AR055: 4, AR039: 3, AR104: 3 L0805: 6, L0770: 5, L0803: 5, L0777: 5, L0776: 3, L0740: 3, L0750: 3, L0759: 3, H0599: 2, T0041: 2, H0670: 2, L0439: 2, L0747: 2, H0341: 1, S0418: 1, S0280: 1, H0318: 1, H0014: 1, S0250: 1, H0252: 1, H0328: 1, H0087: 1, H0494: 1, H0633: 1, L0763: 1, L0796: 1, L0651: 1, L0657: 1, L0558: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, H0519: 1, H0689: 1, H0710: 1, S0152: 1, S3014: 1, L0755:			1-35, 31- 60, 74-107

684	HSDIS65	866560	694	71 - 961	2099			1, H0445: 1, S0436: 1, L0599: 1, H0423: 1 and H0352: 1. AR104: 20, AR033: 16, AR055: 10, AR096: 10, AR053: 10, AR052: 10, AR089: 7, AR060: 7, AR039: 5, AR061: 5 L0756: 7, L0777: 4, H0051: 3, S0003: 3, S0036: 3, S0408: 2, L0770: 2, L0546: 2, L0779: 2, L0596: 2, S0282: 1, S0358: 1, S0278: 1, H0574: 1, H0427: 1, H0590: 1, H0327: 1, H0622: 1, H0130: 1, L0771: 1, L0659: 1, L0665: 1, H0670: 1, H0521: 1, S0037: 1, L0742: 1, L0758: 1 and S0260: 1. AR033: 96, AR052: 86, AR104: 71, AR053: 68, AR089: 60, AR055: 47, AR096: 45, AR060: 35, AR061: 20, AR039: 15 H0620: 2, H0486: 1, H0050: 1, H0012: 1 and H0083: 1. AR052: 29, AR053: 26,		268-297, 30-50, 219-236, 142-161, 242-259, 189-205, 1-17
685	HHFEL55	866610	695	1698 - 1216	2100				135-154	
686	HSIDL28	866611	696	43 - 546	2101	Ser-4 to Pro-12,	3q21-q25	106165,	149-167,	

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687	HELD	78	866684	697	1814 - 3	2102	<p>1, T0110: 1, H0545: 1, H0009: 1, H0081: 1, H0050: 1, L0471: 1, H0012: 1, T0010: 1, H0083: 1, H0271: 1, H0290: 1, H0328: 1, H0615: 1, H0428: 1, S0368: 1, H0033: 1, H0617: 1, S0364: 1, H0135: 1, H0087: 1, H0264: 1, T0041: 1, H0131: 1, H0646: 1, L0598: 1, L0763: 1, L5575: 1, L5565: 1, L0363: 1, L0767: 1, L0649: 1, L5564: 1, L0375: 1, L0806: 1, L0655: 1, L0527: 1, L0657: 1, L0542: 1, L0783: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, L0438: 1, H0520: 1, S0126: 1, H0690: 1, H0682: 1, H0684: 1, S0378: 1, H0710: 1, H0521: 1, H0522: 1, S0044: 1, H0134: 1, S0406: 1, H0436: 1, H0576: 1, L0749: 1, L0777: 1, L0758: 1, L0759: 1, L0599: 1, H0423: 1 and H0677: 1.</p>				<p>149-168, 519-537, 102-118,</p>
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688	HCMTA51	866733	698	21 - 743	2103			AR039: 42, AR104: 21, AR033: 20, AR055: 18, AR096: 17, AR053: 16, AR052: 15, AR089: 14, AR060: 12, AR061: 11 H0486: 1, H0230: 1 and S0260: 1.				103-128, 12-28, 61- 77, 137- 153
689	HSAZG23	866813	699	135 - 467	2104			AR089: 36, AR096: 27, AR053: 21, AR033: 20, AR060: 19, AR052: 18, AR039: 16, AR055: 12, AR104: 8, AR061: 5 L0523: 2, S0114: 1, L0748: 1 and L0749: 1.				58-75, 27- 44
690	HATDH85	866832	700	35 - 556	2105	Glu-3 to Arg-17, Ser-44 to Asp-50, Arg-107 to Gly-117.		AR089: 8, AR060: 7, AR055: 6, AR052: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 3, AR104: 2, AR039: 1 L0748: 9, L0605: 6, H0031: 4, S0126: 4, L0754:				149-174, 117-136, 88-105

691	HTXNU58	866980	701	1158 - 1478	2106	Glu-5 to Trp-12, Leu-54 to Thr-59.	4, S0046: 3, H0052: 2, S0422: 2, L0803: 2, L0666: 2, L0663: 2, S0330: 2, S3014: 2, L0750: 2, H0686: 1, H0346: 1, S0420: 1, H0619: 1, H0431: 1, H0156: 1, H0575: 1, H0590: 1, H0581: 1, H0046: 1, H0123: 1, H0050: 1, H0373: 1, H0083: 1, H0266: 1, H0553: 1, H0628: 1, H0598: 1, S0036: 1, H0100: 1, H0494: 1, H0561: 1, S0440: 1, L0662: 1, L0794: 1, L0381: 1, L0650: 1, L0776: 1, L0540: 1, L0791: 1, H0144: 1, S0328: 1, S0152: 1, H0696: 1, S0406: 1, L0752: 1, S0260: 1, S0436: 1, L0604: 1, L0593: 1, S0242: 1 and H0543: 1.				
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692	HHSFI65	867000	702	67 - 846	2107				1, H0521: 1, H0522: 1, H0694: 1, H0134: 1, S0406: 1, S0028: 1, L0747: 1, H0445: 1, L0595: 1, H0542: 1 and S0424: 1.	11			185-202, 135-157, 153-169, 98-114
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693	HRADG27	867187	703	194 - 526	2108			1, S3014: 1, S0028: 1, L0439: 1, L0740: 1, L0756: 1, L0786: 1, L0780: 1, L0755: 1, H0445: 1, S0434: 1, S0436: 1, L0581: 1, L0595: 1, L0601: 1, H0667: 1, S0192: 1, H0542: 1 and S0424: 1.				33-50, 64- 80
694	HWBCE30	867206	704	23 - 388	2109			AR039: 33, AR053: 15, AR096: 13, AR033: 13, AR104: 12, AR052: 11, AR055: 11, AR089: 10, AR060: 9, AR061: 6 S0428: 1 and H0555: 1. AR039: 40, AR096: 24, AR053: 23, AR033: 21, AR104: 19, AR052: 16, AR089: 16, AR055: 15, AR060: 12, AR061: 7 H0580: 1, S0222: 1, H0271: 1, H0687: 1, H0488: 1, H0555: 1 and S0436: 1.				65-82, 106-122
695	HBGOF57	867330	705	528 - 187	2110	Pro-36 to Ser-43, Ala-75 to Asp-81.		AR104: 21, AR033: 8, AR055: 6, AR060: 6, AR052: 5, AR061: 5, AR096: 2, AR089: 2, AR039: 1, AR053: 0 L0747: 15, L0769: 14, L0789: 11, L0750: 11,				82-98, 56- 72

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696	HAPNX79	867380	706	345 - 1085	2111	Glu-28 to Asp-34, Ala-71 to Gly-77, Leu-91 to Ser-99, Ala-180 to Gly-185, Arg-223 to Pro-229.	H0641: 1, L0638: 1, L4747: 1, L0637: 1, L0800: 1, L0645: 1, L0773: 1, L0768: 1, L0364: 1, L0499: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0655: 1, L0659: 1, L0526: 1, L0809: 1, L0666: 1, T0068: 1, H0658: 1, H0670: 1, H0672: 1, H0651: 1, H0522: 1, H0436: 1, L0439: 1, L0740: 1, L0786: 1, H0445: 1, H0542: 1, H0543: 1 and S0424: 1.					228-246
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			H0657: 5, H0575: 5, H0052: 5, H0024: 5, H0529: 5, L0520: 5, L0764: 5, L0659: 5, L0663: 5, L0665: 5, H0659: 5, L0439: 5, L0747: 5, S0040: 4, H0402: 4, S0420: 4, S0356: 4, S0358: 4, H0619: 4, H0333: 4, H0318: 4, H0581: 4, H0309: 4, H0038: 4, L0369: 4, L0768: 4, L0782: 4, H0144: 4, H0670: 4, S0330: 4, L0757: 4, H0445: 4, L0591: 4, L0604: 4, H0423: 4, H0624: 3, H0686: 3, S0134: 3, H0656: 3, S0116: 3, S0360: 3, S0408: 3, H0580: 3, H0351: 3, H0431: 3, H0618: 3, H0046: 3, H0012: 3, H0620: 3, H0428: 3, H0674: 3, H0090: 3, T0041: 3, L0761: 3, L0772: 3, L0540: 3, S0374: 3, H0519: 3, H0672: 3, H0651: 3, H0539: 3, S0206: 3, L0758: 3, S0031: 3, L0588: 3, L0362: 3, H0136: 3, H0422: 3, H0170: 2, H0171: 2, H0717: 2, H0716: 2, S0114: 2, H0671: 2, H0662: 2,		
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S0376: 2, S0444: 2, H0637: 2, S0046: 2, S0005: 2, H0486: 2, T0114: 2, S0280: 2, H0156: 2, H0036: 2, H0544: 2, H0545: 2, S0051: 2, H0355: 2, H0594: 2, H0266: 2, H0271: 2, S0003: 2, H0039: 2, T0006: 2, H0424: 2, H0553: 2, H0169: 2, L0455: 2, S0366: 2, H0591: 2, H0634: 2, H0087: 2, T0067: 2, H0412: 2, H0413: 2, H0623: 2, T0069: 2, L0351: 2, S0440: 2, L0372: 2, L0375: 2, L0651: 2, L0655: 2, L0517: 2, L0384: 2, L0382: 2, L0532: 2, L0664: 2, H0699: 2, H0684: 2, H0696: 2, S0406: 2, L0754: 2, L0756: 2, S0434: 2, L0587: 2, L0597: 2, L0605: 2, L0581: 2, L0608: 2, L0593: 2, L0594: 2, L0595: 2, L0361: 2, L0603: 2, S0011: 2, S0276: 2, L0600: 2, H0352: 2, H0556: 1, H0685: 1, L0785: 1, S0282: 1, H0483: 1, H0661: 1, H0663: 1, H0664: 1, S0442: 1, S0354: 1,
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697	HABZ74	867423	707	1228 - 398	2112			L0364: 1, L0794: 1, L0551: 1, L0533: 1, L0803: 1, L0650: 1, L0774: 1, L0376: 1, L0653: 1, L0657: 1, L0559: 1, L0544: 1, H0697: 1, H0701: 1, T0068: 1, H0693: 1, H0520: 1, H0547: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, S0378: 1, H0710: 1, H0521: 1, S0044: 1, H0694: 1, H0555: 1, H0576: 1, L0612: 1, H0540: 1, S0037: 1, S3014: 1, S0028: 1, L0744: 1, L0751: 1, L0786: 1, L0779: 1, L0752: 1, L0755: 1, S0260: 1, S0436: 1, L0589: 1, L0590: 1, L0592: 1, L0601: 1, S0026: 1, H0653: 1, S0194: 1, H0542: 1, S0424: 1, S0458: 1 and H0506: 1. AR039: 20, AR033: 15, AR053: 15, AR104: 13, AR096: 12, AR089: 10, AR052: 10, AR060: 9, AR055: 8, AR061: 5 L0766: 4, H0616: 3, L0792: 3, L0665: 3, L0759: 3, H0617: 2, L0761: 2,	Xp11.3- p11.23	300047, 300062, 300071, 300110, 300600, 301000, 301000, 301830,	157-173, 94-110, 18-34, 199-215	
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698	HKATA81	867546	708	51 - 467	2113	Ser-39 to Asn-45, Asn-103 to Ser-109.	L0542: 2, L0666: 2, L0352: 2, L0754: 2, L0756: 2, L0731: 2, L0596: 2, S0134: 1, H0393: 1, S0222: 1, L0021: 1, T0082: 1, L0471: 1, H0012: 1, H0135: 1, H0494: 1, H0560: 1, H0561: 1, H0633: 1, H0529: 1, L0803: 1, L0774: 1, L0806: 1, H0651: 1, H0539: 1, H0521: 1, H0555: 1, S0028: 1, S0032: 1, L0748: 1, L0747: 1, L0749: 1, L0592: 1, L0608: 1, L0366: 1, H0543: 1 and L0600: 1. AR096: 6, AR053: 5, AR052: 5, AR060: 4, AR039: 4, AR033: 4, AR089: 4, AR104: 3, AR055: 2, AR061: 1 S0007: 4, L0731: 3, L0748: 2, L0747: 2, H0686: 1, H0484: 1, S0420: 1, H0580: 1, S0278: 1, H0098: 1, S0346: 1, H0688: 1, H0644: 1, H0413: 1, H0512: 1, L0646: 1, L0774: 1, L0775: 1, H0519: 1, H0626: 1, L0750: 1, L0752: 1 and L0592: 1.			304020, 309470, 309500, 309610, 309850, 310500, 311050, 312060, 312600		1-31, 51- 77, 117- 138
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699	HPMLG49	867555	709	135 - 1172	2114	Ala-28 to Tyr-34, Lys-56 to Cys-64, Gly-191 to Gly-196, Lys-339 to Asp-346.	AR055: 10, AR033: 9, AR060: 9, AR052: 7, AR089: 7, AR061: 6, AR039: 4, AR096: 4, AR053: 4, AR104: 2 H0023: 6, H0266: 5, H0286: 5, H0038: 4, S3014: 3, L0439: 3, S0011: 3, S0046: 2, H0635: 2, H0510: 2, H0616: 2, S0404: 2, H0436: 2, S0027: 2, S0040: 1, S0134: 1, S0116: 1, S0442: 1, S0444: 1, S0410: 1, H0393: 1, H0549: 1, H0431: 1, H0455: 1, H0600: 1, H0599: 1, T0082: 1, T0115: 1, H0544: 1, H0545: 1, H0563: 1, L0471: 1, H0267: 1, H0292: 1, S0214: 1, H0031: 1, H0644: 1, S0036: 1, H0163: 1, S0440: 1, L0662: 1, L0803: 1, L0805: 1, L0656: 1, L0558: 1, L0517: 1, L0809: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0710: 1, H0522: 1, H0696: 1, H0478: 1, S0028: 1, S0206: 1, L0749: 1, S0434: 1, S0436: 1, L0596: 1, L0603: 1,				3-26, 126- 153, 198- 224, 163- 181, 287- 305, 237- 253, 97- 115, 36- 52, 77-93
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700	HPMJN59	867569	710	87 - 665	2115		H0667: 1 and H0136: 1, AR039: 54, AR033: 32, AR053: 30, AR096: 29, AR052: 29, AR104: 27, AR055: 26, AR089: 22, AR060: 19, AR061: 13 H0644: 2			65-81, 130-146
701	HKAED76	867582	711	49 - 906	2116		AR096: 3, AR052: 1, AR033: 1, AR089: 0, AR055: 0, AR053: 0, AR060: 0, AR061: 0, AR104: 0, AR039: 0 S0192: 11, L0731: 10, L0748: 8, L0659: 7, L0757: 7, H0036: 6, S0360: 5, L0754: 5, L0747: 5, L0599: 5, H0328: 4, L0598: 4, L0740: 4, L0779: 4, H0575: 3, H0251: 3, L0749: 3, L0759: 3, H0486: 2, S0280: 2, L0021: 2, S0250: 2, H0644: 2, H0163: 2, H0494: 2, L0369: 2, L0520: 2, L0770: 2, L0637: 2, L0773: 2, L0662: 2, L0526: 2, L0666: 2, L0665: 2, H0144: 2, S0126: 2, H0648: 2, L0751: 2, L0750: 2, L0752: 2, L0755: 2, L0758: 2,			195-222, 82-107, 49-70, 5- 33, 118- 144, 157- 179, 139- 155

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703	HARMV22	867612	713	183 - 494	2118			AR060: 1, AR053: 1, AR104: 1, AR033: 1, AR061: 1, AR039: 0, AR055: 0 L0754: 4, L0809: 2, L0666: 2, S0330: 2, L0777: 2, H0663: 1, H0600: 1, H0592: 1, H0586: 1, H0644: 1, H0494: 1, L0772: 1, L0662: 1, L0794: 1, L0665: 1, S0328: 1, H0518: 1, S0004: 1, H0478: 1, L0439: 1, L0779: 1, L0731: 1 and L0759: 1.				56, 18-34
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704	HSDIY76	867686	714	13 - 1020	2119	Leu-134 to Lys-139.	L0752: 2, L0757: 2, L0758: 2, L0608: 2, L0593: 2, H0556: 1, S0418: 1, S0360: 1, S0410: 1, H0619: 1, H0592: 1, H0586: 1, H0333: 1, H0270: 1, H0251: 1, H0309: 1, T0110: 1, H0545: 1, H0041: 1, H0057: 1, S0051: 1, H0188: 1, L0483: 1, H0553: 1, H0674: 1, H0634: 1, H0272: 1, H0623: 1, H0059: 1, S0450: 1, H0647: 1, S0002: 1, L0761: 1, L0764: 1, L0767: 1, L0768: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0657: 1, L0515: 1, L0658: 1, L0383: 1, L0809: 1, L0663: 1, L0438: 1, H0519: 1, H0684: 1, H0670: 1, H0672: 1, L0754: 1, L0747: 1, L0750: 1, L0591: 1, L0485: 1, L0595: 1, L0601: 1, S0106: 1, H0668: 1, H0543: 1 and H0423: 1.	1p32-p34	120950, 120960, 130500, 133200, 138140,	304-320, 5-21, 31- 47, 255- 271
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705	HPJEV26	867728	715	132 - 848	2120	Met-1 to Arg-6, Asp-64 to Leu-75, Arg-80 to Tyr-88, Lys-107 to Leu-114, Leu-159 to Lys-169.	S0003: 1, H0031: 1, L0779: 1, S0260: 1 and L0366: 1.			168360, 171760, 171760, 176100, 176100, 178300, 187040, 230000, 255800, 600101, 600650, 600650, 600722, 600722	133-155, 186-203
						AR053: 9, AR052: 9, AR055: 9, AR039: 8, AR033: 8, AR096: 6, AR089: 6, AR060: 6, AR104: 6, AR061: 4 L0754: 8, L0748: 5, L0794: 3, L0766: 3, L0777: 3, S0116: 2, S0360: 2, L0717: 2, S0222: 2, H0615: 2, H0135: 2, L0659: 2, L0665: 2, H0521: 2, L0439: 2, H0171: 1, H0556: 1, S0342: 1, H0657: 1, H0484: 1, S0046: 1, H0549: 1, H0392: 1, H0486: 1, H0013: 1, H0318: 1, H0597: 1,					

706	HPJEV91	867729	716	208 - 531	2121	Ile-2 to Thr-7, Tyr-74 to Val-79.	H0530: 1, L0471: 1, T0010: 1, S0340: 1, H0328: 1, H0688: 1, H0622: 1, L0483: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, H0264: 1, H0494: 1, H0625: 1, S0372: 1, H0633: 1, L0769: 1, L0796: 1, L0761: 1, L0649: 1, L0775: 1, L0776: 1, L0809: 1, L0792: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0689: 1, H0658: 1, S0152: 1, H0436: 1, L0749: 1, L0750: 1, L0779: 1, L0752: 1, L0731: 1, L0758: 1, L0591: 1, L0608: 1, L0362: 1, H0668: 1 and S0026: 1. AR055: 8, AR096: 5, AR060: 5, AR061: 4, AR033: 4, AR053: 4, AR089: 3, AR052: 3, AR039: 2, AR104: 0 H0486: 2, H0494: 2, L0749: 2, L0759: 2, L0591: 2, L0361: 2, H0676: 1, S0003: 1, H0688: 1, H0553: 1, L0764: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0792: 1, L0793: 1,						37-74, 14- 30
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707	HAMGK18	867752	717	33 - 485	2122	Met-4 to Gln-9, Gln-16 to Pro-21, Phe-60 to Asp-67, Ser-118 to Ser-129, Thr-134 to Trp-144.	L0438: 1, H0520: 1, S0126: 1, H0659: 1, H0648: 1, S0152: 1, L0755: 1 and S0436: 1. AR033: 5, AR055: 4, AR052: 4, AR053: 3, AR104: 3, AR060: 3, AR096: 3, AR089: 2, AR039: 1, AR061: 1 S0126: 6, H0046: 4, S0003: 3, L0794: 3, L0766: 3, L0439: 3, L0747: 3, L0759: 3, S0278: 2, L0805: 2, L0740: 2, L0745: 2, L0755: 2, L0595: 2, H0624: 1, H0170: 1, S0116: 1, H0341: 1, H0638: 1, S0420: 1, S0442: 1, S0358: 1, H0437: 1, H0574: 1, H0036: 1, H0581: 1, L0040: 1, H0457: 1, H0373: 1, S0214: 1, H0039: 1, H0031: 1, H0598: 1, H0090: 1, H0616: 1, H0551: 1, H0560: 1, H0646: 1, S0426: 1, L0769: 1, L0662: 1, L0803: 1, L0776: 1, L0438: 1, H0659: 1, H0658: 1, H0648: 1, S0152: 1, H0521: 1, H0522: 1, L0780: 1, L0758: 1,					102-118
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708	HCHOH94	867777	718	55 - 570	2123	Arg-32 to Ser-39, Pro-64 to Ser-69.	S0436: 1 and S0242: 1. AR055: 2, AR033: 2, AR089: 1, AR052: 1, AR060: 1, AR096: 1, AR061: 1, AR053: 1, AR104: 0, AR039: 0 H0484: 1, S0358: 1, H0069: 1, T0041: 1 and H0543: 1.				121-151, 68-84, 145-161
709	HPJDA25	867778	719	336 - 818	2124	Ser-4 to Ser-14, Pro-39 to Ser-44.	AR055: 8, AR060: 4, AR033: 4, AR061: 4, AR052: 3, AR096: 3, AR089: 3, AR039: 2, AR104: 1, AR053: 1 H0553: 1, S0152: 1 and H0423: 1.				95-123, 43-59
710	HJACF33	867890	720	187 - 528	2125	Pro-22 to Glu-27, Leu-69 to Ser-76, Gln-107 to Glu-114.	AR096: 45, AR089: 41, AR033: 27, AR060: 22, AR053: 21, AR052: 17, AR039: 17, AR055: 15, AR104: 11, AR061: 8 L0753: 2, S0114: 1, H0486: 1, H0166: 1, T0041: 1, H0521: 1, H0444: 1, L0366: 1, H0543: 1 and H0677: 1.				48-69
711	HHFMP57	867925	721	2353 - 1079	2126	Cys-6 to Arg-20, Arg-27 to Glu-38, Leu-165 to Ala-171,	AR055: 9, AR096: 6, AR033: 6, AR060: 6, AR052: 5, AR061: 4,				252-268, 391-407, 317-333,

712	HELGD39	867938	722	83 - 856	2127	Met-1 to Val-7.	Gly-184 to Ser-196, Arg-204 to Asn-209, Pro-241 to Glu-246.	AR053: 4, AR089: 3, AR104: 2, AR039: 1 L0748: 5, H0656: 3, S0045: 3, H0486: 3, H0599: 2, H0318: 2, H0266: 2, H0682: 2, H0658: 2, H0436: 2, S0028: 2, H0542: 2, H0265: 1, H0556: 1, S0040: 1, H0458: 1, S0360: 1, H0619: 1, H0392: 1, H0635: 1, S0280: 1, H0042: 1, H0581: 1, H0052: 1, L0471: 1, H0620: 1, H0024: 1, H0107: 1, T0010: 1, H0179: 1, H0271: 1, H0328: 1, H0264: 1, H0488: 1, H0494: 1, H0529: 1, L0761: 1, L0766: 1, L0629: 1, L0657: 1, L0636: 1, L0666: 1, L0665: 1, H0519: 1, H0689: 1, H0670: 1, H0521: 1, S0032: 1, L0743: 1, L0744: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0543: 1, H0423: 1, H0422: 1 and H0352: 1.				79-95, 295-311, 148-164
								AR096: 79, AR052: 61, AR053: 59, AR039: 54, AR089: 51, AR033: 44, AR104: 44, AR060: 37.			131-148, 210-226	

713	HMACX92	867995	723	173 - 1159	2128	Glu-129 to Trp-136, Asn-312 to Glu-318.	AR055: 36, AR061: 24 S0222: 2, H0038: 2, H0519: 2, L0756: 2, S0045: 1, S0300: 1, H0486: 1, S0010: 1, H0194: 1, L0157: 1, L0171: 1, H0615: 1, H0617: 1, H0616: 1, L0794: 1, L0665: 1, H0658: 1, L0779: 1, L0752: 1 and S0398: 1.					165-188, 294-310, 270-286, 19-35, 76- 92
							AR061: 5, AR060: 3, AR055: 3, AR033: 2, AR089: 2, AR096: 2, AR052: 2, AR104: 1, AR053: 1, AR039: 0 S0144: 4, L0803: 2, H0682: 2, H0521: 2, H0295: 1, L0005: 1, H0645: 1, H0549: 1, T0060: 1, H0327: 1, H0545: 1, H0050: 1, H0012: 1, H0620: 1, H0510: 1, H0687: 1, H0617: 1, H0059: 1, S0438: 1, S0440: 1, H0509: 1, H0641: 1, S0002: 1, L0646: 1, L0800: 1, L0374: 1, L0794: 1, L0804: 1, L0775: 1, L0656: 1, L0809: 1, L0790: 1, L0664: 1, S0052: 1, H0520: 1, L0749: 1, H0653: 1 and					

714	HMKCV39	868004	724	25 - 354	2129	Ala-3 to Gly-9.	S0194: 1. AR096: 5, AR053: 4, AR089: 3, AR039: 3, AR052: 3, AR033: 3, AR060: 3, AR104: 2, AR061: 2, AR055: 1 H0295: 6, L0758: 6, H0545: 4, L0754: 4, L0759: 3, H0170: 2, H0255: 2, L0766: 2, L0649: 2, L0665: 2, H0696: 2, H0177: 1, H0549: 1, H0392: 1, H0587: 1, H0333: 1, H0327: 1, L0695: 1, H0328: 1, H0674: 1, H0616: 1, S0142: 1, H0529: 1, L0762: 1, L0769: 1, L0800: 1, L0658: 1, L0659: 1, L0783: 1, L0809: 1, L0528: 1, H0547: 1, S0136: 1, S0390: 1, L0740: 1, L0747: 1, L0777: 1 and L0752: 1.			51-72, 24-40
715	HNTOE45	868031	725	10 - 516	2130		AR089: 7, AR033: 6, AR060: 6, AR096: 5, AR039: 3, AR052: 3, AR053: 3, AR055: 2, AR104: 2, AR061: 2 L0527: 2, H0657: 1, H0341: 1, S0222: 1, H0438:			12-35, 49-70, 123-140, 142-158, 90-106

716	HCUFV69	868130	726	4 - 357	2131				1, T0048: 1, S0049: 1, S0250: 1, S0036: 1, H0087: 1, H0561: 1, L0369: 1, L0388: 1, L0518: 1, H0520: 1, H0519: 1, H0435: 1, L0366: 1 and L0697: 1.				92-118, 20-36, 62-78
									AR089: 16, AR060: 16, AR033: 15, AR061: 2, AR096: 2, AR055: 1, AR104: 1, AR039: 0, AR052: 0, AR053: 0, S0144: 10, L0775: 10, S0278: 6, H0638: 5, H0641: 5, H0580: 4, S0142: 4, H0521: 4, H0522: 4, L0747: 4, S0428: 3, H0402: 2, S0358: 2, S0408: 2, S0140: 2, H0392: 2, H0086: 2, L0520: 2, L0763: 2, L0772: 2, L0771: 2, L0774: 2, L0776: 2, L0526: 2, H0658: 2, L0743: 2, L0751: 2, L0754: 2, L0756: 2, L0605: 2, S0134: 1, S0116: 1, H0662: 1, H0306: 1, S0444: 1, S0360: 1, H0637: 1, S0045: 1, S0222: 1, S6014: 1, H0438: 1, H0592: 1, H0250: 1, H0069: 1, H0575: 1, T0082: 1, H0036: 1,				

717	HMVCZ54	868140	727	203 - 877	2132	Gly-4 to Cys-14.	<p>H0581: 1, H0457: 1, H0354: 1, H0247: 1, H0271: 1, L0055: 1, S0036: 1, S0438: 1, H0646: 1, L0770: 1, L0769: 1, L0764: 1, L0375: 1, L0787: 1, S0053: 1, S0374: 1, H0682: 1, H0648: 1, H0710: 1, L0744: 1, L0755: 1, L0731: 1, L0758: 1, L0603: 1, H0423: 1 and H0352: 1.</p> <p>AR061: 20, AR039: 18, AR053: 15, AR055: 15, AR052: 14, AR033: 13, AR096: 13, AR089: 13, AR104: 12, AR060: 11, L0748: 9, S0422: 6, L0752: 5, S0196: 5, S0212: 4, L0803: 4, L0754: 4, L0749: 4, L0599: 4, S0242: 4, L0790: 3, L0439: 3, L0779: 3, S0360: 2, L0105: 2, H0046: 2, S0003: 2, L0794: 2, L0766: 2, L0775: 2, L0655: 2, L0565: 2, L0352: 2, H0521: 2, L0750: 2, L0777: 2, L0731: 2, L0758: 2, S0436: 2, S0026: 2, H0543: 2, H0624: 1, H0171: 1, S0116: 1, H0483: 1.</p>					<p>24-52, 152-174, 74-90, 184-200, 130-146, 106-122, 54-70</p>
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718	HMSHI94	868172	728	364 - 663	2133	Gln-9 to Gly-24, Val-32 to Thr-40, Phe-59 to Gly-66.	1, S0356: 1, S0442: 1, H0580: 1, S0045: 1, S0046: 1, H0643: 1, H0574: 1, T0040: 1, H0052: 1, H0083: 1, H0553: 1, H0708: 1, S0036: 1, H0135: 1, H0591: 1, H0038: 1, H0641: 1, L0769: 1, L0639: 1, L0806: 1, L0659: 1, L0809: 1, L0793: 1, L0438: 1, S0126: 1, H0672: 1, H0539: 1, H0522: 1, H0696: 1, S0390: 1 and L0757: 1. AR033: 4, AR089: 3, AR060: 3, AR052: 2, AR053: 2, AR096: 2, AR104: 1, AR061: 1, AR055: 0 H0271: 1, S0002: 1 and L0766: 1.	1p35-p34	118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 168360, 171760, 171760, 172411, 176100, 176100, 178300, 185470,	42-58	
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719	HAPTE80	868238	729	150 - 1091	2134	Ser-15 to Leu-22, Glu-166 to Glu-173, Lys-181 to Met-186.	AR052: 8, AR055: 8, AR033: 6, AR053: 5, AR060: 5, AR089: 4, AR096: 4, AR061: 3, AR104: 2, AR039: 1 H0144: 3, S0114: 1, H0619: 1, T0114: 1, H0575: 1, L0483: 1, H0435: 1, H0539: 1, L0439: 1, L0588: 1 and L0592: 1.			230000, 230350, 255800, 602771	70-89, 32- 49, 91-107
720	HSLJC72	868253	730	74 - 412	2135	Tyr-10 to Asp-15, Asp-64 to Gly-72, Gln-74 to Lys-85.	AR052: 866, AR096: 756, AR089: 424, AR060: 372, AR053: 278, AR104: 179, AR033: 176, AR039: 159, AR061: 108, AR055: 30				15-41, 41- 63, 86-107
721	HWBCR21	868312	731	173 - 514	2136	Phe-95 to Glu-105.	AR053: 4, AR052: 4, AR096: 4, AR039: 4, AR033: 3, AR089: 3, AR060: 2, AR104: 2, AR055: 2, AR061: 1 S0408: 1, H0580: 1, H0486: 1, H0012: 1, L0794: 1, L0803: 1, L0805: 1, L0790: 1, L0792: 1 and				67-95, 1- 19, 52-68, 24-40

722	HKAAU27	868368	732	1016 - 1375	2137	Leu-40 to Asp-48, Lys-92 to Gly-98.	H0522: 1. AR096: 5, AR052: 4, AR033: 4, AR053: 3, AR089: 3, AR055: 2, AR104: 2, AR060: 2, AR061: 2, AR039: 0 H0617: 2, L0662: 2, L0779: 2, L0759: 2, H0716: 1, H0583: 1, H0580: 1, H0549: 1, H0643: 1, L0021: 1, H0581: 1, H0051: 1, H0688: 1, H0059: 1, H0494: 1, H0695: 1, L0770: 1, L0761: 1, L0766: 1, L0803: 1, L0809: 1, H0436: 1, H0540: 1, L0756: 1, L0608: 1, L0603: 1 and S0026: 1.				71-91, 15- 35
723	HOSCJ09	868369	733	42 - 659	2138	Asn-38 to Phe-46.	AR055: 12, AR053: 11, AR033: 10, AR052: 10, AR039: 10, AR060: 10, AR096: 9, AR104: 8, AR089: 8, AR061: 6 L0439: 7, L0805: 4, S0003: 2, L0438: 2, S0114: 1, L0415: 1, S0358: 1, H0580: 1, H0619: 1, H0013: 1, H0036: 1, S0474: 1, H0251: 1, S0388: 1, L0761: 1, L0667: 1, L0794: 1,				16-35, 159-176, 55-71, 101-117, 138-154

724	HWBAE15	868370	734	746 - 1093	2139	Asn-53 to Phe-61.	L0523: 1, L0776: 1, L0659: 1, L0809: 1, L0787: 1, L0790: 1, L0666: 1, H0593: 1, H0711: 1, L0756: 1, L0779: 1, L0755: 1, L0591: 1 and H0423: 1. AR052: 1, AR053: 1, AR033: 1, AR061: 0, AR039: 0, AR089: 0, AR096: 0, AR104: 0, AR060: 0, AR055: 0 L0438: 4, L0439: 4, S0003: 3, L0805: 3, L0415: 2, S0114: 1, S0358: 1, H0580: 1, H0619: 1, H0013: 1, H0036: 1, S0474: 1, H0251: 1, S0388: 1, L0761: 1, L0667: 1, L0794: 1, L0523: 1, L0776: 1, L0659: 1, L0809: 1, L0787: 1, L0790: 1, L0666: 1, H0593: 1, H0711: 1, L0756: 1, L0779: 1, L0755: 1 and H0423: 1.				31-50, 70- 86
725	HWAFN46	868440	735	242 - 601	2140	Pro-28 to Pro-34, Glu-46 to Lys-51, Ala-73 to Pro-80.	AR052: 2, AR096: 2, AR033: 1, AR055: 1, AR053: 1, AR060: 1, AR089: 1, AR061: 1, AR104: 0				79-103, 52-69

726	HWAET91	868475	736	201 - 641	2141	Ser-35 to Gln-42, Ser-94 to Glu-101.	H0581: 1 and S0250: 1. AR096: 3, AR089: 2, AR039: 2, AR052: 2, AR060: 2, AR053: 1, AR033: 1, AR061: 1, AR055: 1, AR104: 1 H0581: 1, L0766: 1 and L0749: 1.			55-81, 123-141, 79-95, 43- 59, 18-34
727	HDPMO69	868484	737	120 - 941	2142	Ser-12 to Tyr-18, Glu-34 to Val-45, Pro-71 to Asn-76, Tyr-84 to Lys-95, Thr-153 to Tyr-158, Glu-241 to Tyr-250, Asp-252 to Gln-263.	AR060: 1, AR096: 1, AR089: 1, AR104: 1, AR055: 1, AR061: 1, AR053: 0, AR033: 0, AR039: 0, AR052: 0 S0036: 2, L0754: 2, L0596: 2, T0049: 1, H0632: 1, H0069: 1, H0098: 1, H0581: 1, H0375: 1, L0794: 1, L0766: 1, L0803: 1, H0519: 1, H0660: 1, H0521: 1, H0522: 1, L0745: 1, S0196: 1 and H0423: 1.			93-120, 215-231
728	HELMH41	868568	738	322 - 1812	2143	Met-1 to Arg-7, Leu-11 to Lys-18, Ser-25 to Trp-33, Asn-67 to Asn-73, Glu-133 to Leu-147.	AR055: 8, AR060: 5, AR052: 5, AR033: 4, AR053: 4, AR039: 4, AR089: 3, AR096: 3, AR061: 2, AR104: 2 L0748: 11, L0438: 4, L0758: 4, H0038: 3, H0521: 3, L0731: 3, S0222: 2,			102-122, 150-166, 275-291, 393-409, 244-260, 170-186

729	HEQCA95	868765	739	75 - 614	2144	Gln-21 to Cys-27.	H0333: 2, H0050: 2, T0042: 2, L0794: 2, L0766: 2, L0664: 2, H0144: 2, L0759: 2, L0593: 2, H0484: 1, S0418: 1, S0442: 1, S0410: 1, S0045: 1, H0393: 1, L0717: 1, H0411: 1, S0278: 1, H0586: 1, H0642: 1, S0010: 1, S0474: 1, H0421: 1, H0046: 1, H0457: 1, H0051: 1, S0250: 1, H0615: 1, H0039: 1, H0674: 1, H0059: 1, L0564: 1, H0561: 1, S0422: 1, S0426: 1, L0763: 1, L0372: 1, L0641: 1, L0764: 1, L0803: 1, L0774: 1, L0809: 1, L0665: 1, H0698: 1, S0378: 1, H0518: 1, S0152: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, L0779: 1, L0752: 1, L0755: 1, L0604: 1, S0192: 1, S0242: 1, H0543: 1 and S0021: 1. AR096: 23, AR089: 23, AR104: 21, AR033: 16, AR060: 15, AR052: 14, AR053: 11, AR055: 9, AR039: 8, AR061: 3						97-128, 27-55, 64-86, 140-157
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730	HAGEG94	868792	740	134 - 580	2145	Thr-6 to Glu-11, Lys-14 to Cys-20, Ser-51 to Ala-58, His-140 to Thr-148.	<p>S0358: 9, H0544: 2, H0545: 2, H0551: 2, S0002: 2, L0803: 2, H0672: 2, L0755: 2, S0420: 1, S0376: 1, S0278: 1, H0635: 1, L0022: 1, H0042: 1, H0575: 1, H0204: 1, H0266: 1, L0194: 1, H0644: 1, H0591: 1, H0634: 1, H0488: 1, H0623: 1, S0344: 1, S0426: 1, L0771: 1, L0804: 1, S0053: 1, H0547: 1, H0435: 1, H0696: 1, S0406: 1, L0751: 1, L0757: 1, S0434: 1, L0591: 1 and S0458: 1.</p> <p>AR055: 8, AR060: 5, AR096: 5, AR061: 4, AR052: 4, AR033: 4, AR089: 4, AR053: 3, AR104: 3, AR039: 2 H0056: 5, L0775: 3, L0439: 3, H0170: 2, S0124: 2, L0740: 2, L0786: 2, S0420: 1, S0442: 1, H0587: 1, H0013: 1, S0010: 1, S0003: 1, H0032: 1, L0763: 1, L0770: 1, L0764: 1, L0768: 1, L0803: 1, L0793: 1, L0666: 1, H0539: 1, L0779: 1, L0777: 1, L0759:</p>						92-108, 73-89
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731	HWAFX90	868808	741	146 - 487	2146	Gln-58 to Val-63.	1, S0434: 1, S0436: 1 and H0543: 1. AR089: 16, AR033: 7, AR060: 7, AR104: 5, AR096: 3, AR055: 2, AR052: 2, AR053: 2, AR061: 1, AR039: 1 S0328: 9, L0770: 7, S0418: 6, S0410: 5, H0486: 5, L0455: 3, H0494: 3, H0659: 3, H0666: 3, H0648: 3, L0752: 3, H0624: 2, H0663: 2, H0638: 2, S0420: 2, S0358: 2, S0007: 2, H0393: 2, H0013: 2, H0581: 2, L0471: 2, S0438: 2, S0440: 2, S0144: 2, L0637: 2, L0766: 2, L0651: 2, L0518: 2, L0382: 2, L0519: 2, L0665: 2, H0672: 2, S0380: 2, L0592: 2, H0543: 2, H0171: 1, H0713: 1, T0049: 1, H0583: 1, H0650: 1, H0656: 1, S0354: 1, S0376: 1, S0408: 1, T0008: 1, H0637: 1, H0580: 1, H0351: 1, H0392: 1, H0592: 1, T0114: 1, H0635: 1, H0706: 1, S0182: 1, H0421: 1, H0052: 1, H0571: 1, H0615:	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134	90-106, 62-78, 35- 51, 14-30
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								1, H0688: 1, H0428: 1, T0006: 1, H0644: 1, H0090: 1, H0264: 1, H0488: 1, H0413: 1, H0623: 1, H0059: 1, T0042: 1, L0475: 1, H0561: 1, L0065: 1, S0210: 1, H0529: 1, L0640: 1, L0648: 1, L0768: 1, L0774: 1, L0775: 1, L0379: 1, L0657: 1, L0793: 1, L0666: 1, L0438: 1, H0658: 1, H0660: 1, S0406: 1, H0436: 1, S0390: 1, S3014: 1, L0748: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1, S0436: 1, H0422: 1 and H0352: 1.					11-37, 71- 94, 43-59, 129-145, 104-120, 152-168
732	HHFGM33	868870	742	244 - 1005	2147			AR089: 4, AR033: 4, AR060: 4, AR061: 2, AR096: 1, AR055: 1, AR104: 1, AR052: 0, AR039: 0, AR053: 0 H0521: 3, H0519: 2, H0717: 1, S0442: 1, H0434: 1, H0050: 1, H0615: 1, H0628: 1, H0135: 1, H0412: 1, L0638: 1, H0539: 1, S0152: 1, H0576: 1, S0206: 1, L0740: 1, L0594: 1 and H0543: 1.					

733	HTEQK83	868928	743	500 - 931	2148	Lys-7 to Ser-16, Tyr-70 to Arg-75.	AR060: 13, AR089: 9, AR052: 8, AR096: 8, AR033: 6, AR053: 4, AR061: 4, AR104: 0, AR055: 0 H0250: 60, S0126: 24, H0013: 9, H0124: 9, H0494: 8, H0521: 7, H0428: 6, H0553: 6, H0038: 6, S0027: 6, S0040: 5, T0039: 5, H0050: 5, L0471: 5, H0644: 5, H0135: 5, H0551: 5, T0067: 5, H0144: 5, H0539: 5, S0028: 5, L0439: 5, L0740: 5, H0171: 4, S0356: 4, S0046: 4, H0586: 4, H0486: 4, H0599: 4, H0046: 4, H0024: 4, H0266: 4, S0003: 4, H0040: 4, H0059: 4, S0152: 4, L0603: 4, H0556: 3, S0222: 3, H0574: 3, H0156: 3, S0010: 3, H0581: 3, H0620: 3, H0014: 3, H0015: 3, H0373: 3, S0022: 3, H0031: 3, H0547: 3, H0519: 3, H0522: 3, L0748: 3, H0624: 2, H0265: 2, H0295: 2, S0212: 2, H0484: 2, H0661: 2, H0125: 2, S0418: 2, H0208: 2,				75-103, 28-53, 116-132
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S0045: 2, H0619: 2, H0645: 2, H0550: 2, H0431: 2, H0370: 2, H0427: 2, H0575: 2, H0618: 2, S0049: 2, H0530: 2, H0545: 2, H0012: 2, H0375: 2, H0179: 2, H0286: 2, H0615: 2, H0039: 2, H0622: 2, H0032: 2, H0068: 2, H0090: 2, H0616: 2, H0264: 2, H0268: 2, H0100: 2, T0042: 2, S0294: 2, S0142: 2, H0517: 2, H0651: 2, S0037: 2, H0506: 2, H0157: 1, H0294: 1, H0671: 1, H0662: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, H0580: 1, H0393: 1, H0437: 1, H0369: 1, H0549: 1, H0409: 1, H0602: 1, H0587: 1, H0642: 1, L0477: 1, T0040: 1, H0635: 1, H0097: 1, H0036: 1, S0346: 1, H0421: 1, H0230: 1, H0196: 1, H0251: 1, T0115: 1, H0086: 1, H0009: 1, H0081: 1, H0197: 1, H0023: 1, H0023: 1, H0107: 1, T0010: 1, H0271: 1, S0318: 1, S0334: 1, S0316: 1, H0284: 1, S0314: 1.
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734	HULFK26	868929	744	141 - 839	2149	Lys-7 to Ser-16, Tyr-70 to Arg-75, Pro-135 to Gln-143, Cys-186 to Val-195, Met-221 to Tyr-230.	S0250: 1, S0214: 1, H0328: 1, L0483: 1, H0212: 1, H0708: 1, S0036: 1, H0634: 1, H0488: 1, H0433: 1, H0056: 1, H0623: 1, T0069: 1, H0560: 1, H0561: 1, S0448: 1, S0440: 1, H0509: 1, H0131: 1, S0150: 1, S0144: 1, S0344: 1, S0208: 1, S0210: 1, S0426: 1, H0529: 1, L0384: 1, S0216: 1, S0148: 1, H0593: 1, H0435: 1, H0658: 1, H0666: 1, H0518: 1, S0004: 1, H0134: 1, H0436: 1, S0432: 1, S0390: 1, S3014: 1, L0754: 1, L0746: 1, L0758: 1, L0596: 1, L0605: 1, L0592: 1, L0581: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, S0446: 1 and H0293: 1.				150-183, 75-103, 28-53, 111-128
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	H0428: 6, H0553: 6, H0038: 6, S0027: 6, S0040: 5, T0039: 5, H0050: 5, L0471: 5, H0644: 5, H0135: 5, H0551: 5, T0067: 5, H0144: 5, H0539: 5, S0028: 5, L0740: 5, H0171: 4, S0356: 4, S0046: 4, H0586: 4, H0486: 4, H0599: 4, H0046: 4, H0024: 4, H0266: 4, S0003: 4, H0040: 4, H0059: 4, H0519: 4, S0152: 4, L0603: 4, H0556: 3, S0222: 3, H0574: 3, H0156: 3, S0010: 3, H0581: 3, H0620: 3, H0014: 3, H0015: 3, H0373: 3, S0022: 3, H0031: 3, H0547: 3, H0522: 3, L0748: 3, H0624: 2, H0265: 2, H0295: 2, S0212: 2, H0484: 2, H0661: 2, H0125: 2, S0418: 2, H0208: 2, S0045: 2, H0619: 2, H0645: 2, H0550: 2, H0431: 2, H0370: 2, H0427: 2, H0575: 2, H0618: 2, S0049: 2, H0530: 2, H0545: 2, H0012: 2, T0010: 2, H0375: 2, H0179: 2, H0286: 2, H0615: 2, H0039: 2, H0622: 2,						
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735	HSBBS15	869055	745	1523 - 825	2150	Val-25 to Leu-35, Gly-138 to Gly-144.	AR055: 9, AR060: 6, AR033: 5, AR104: 4, AR061: 2, AR039: 2, AR096: 0, AR089: 0, AR053: 0, AR052: 0, S0388: 2, S0418: 1, S0442: 1, T0040: 1, S0280: 1, H0618: 1, H0253: 1, H0545: 1, S0440: 1, H0641: 1, H0519: 1, S0027: 1, L0759: 1 and H0445: 1.	11				158-175, 91-113, 109-125, 54-70
736	HS2IL80	869056	746	127 - 519	2151	Gly-31 to Ser-38.	AR033: 27, AR089: 16, AR096: 12, AR039: 11,	11				51-68

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737	HUSZB06	869057	747	47 - 904	2152	Arg-21 to Ala-28, Pro-33 to Ala-40, Pro-42 to Gly-50, Val-163 to Leu-173, Gly-246 to Asn-253.	H0506: 1. AR060: 12, AR061: 7, AR089: 7, AR039: 5, AR104: 3, AR033: 3, AR096: 2, AR055: 1, AR053: 0, AR052: 0 L0659: 10, L0665: 9, T0040: 8, L0519: 8, L0759: 8, L0776: 7, L0749: 7, S0418: 6, L0744: 6, L0747: 6, L0758: 6, S0046: 5, H0052: 5, H0457: 5, H0150: 5, L0769: 5, L0766: 5, L0748: 5, H0265: 4, S0420: 4, S0356: 4, S0360: 4, S0010: 4, H0545: 4, H0494: 4, L0662: 4, L0768: 4, L0774: 4, L0775: 4, S0406: 4, L0751: 4, L0754: 4, L0779: 4, H0295: 3, H0484: 3, S0476: 3, H0549: 3, S0222: 3, H0575: 3, H0581: 3, H0421: 3, H0620: 3, S0051: 3, H0687: 3, H0428: 3, L0764: 3, L0666: 3, H0435: 3, H0648: 3, H0539: 3, H0436: 3, L0750: 3, H0624: 2, H0171: 2, H0556: 2, H0657: 2, H0656: 2, S0354: 2, S0358: 2, S0376:	11			65-81, 192-208, 229-245
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738	HUCNM83	869060	748	257 - 610	2153	Thr-29 to Thr-69.	1, L0581: 1, L0595: 1, L0601: 1, H0667: 1, S0192: 1, H0542: 1 and S0424: 1. AR039: 86, AR052: 69, AR096: 65, AR053: 61, AR089: 55, AR060: 38, AR104: 36, AR033: 35, AR055: 18, AR061: 11 H0486: 3, H0641: 3, L0766: 3, L0748: 3, L0731: 3, L0757: 3, T0040: 2, L0770: 2, L0794: 2, L0805: 2, H0519: 2, H0521: 2, H0638: 1, S0420: 1, L0021: 1, H0581: 1, L0471: 1, H0090: 1, H0412: 1, L0761: 1, L0764: 1, L0767: 1, L0803: 1, L0806: 1, L0776: 1, H0659: 1, H0522: 1, L0747: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1 and H0543: 1.				96-114, 10-26, 76- 92
739	HUCNW47	869091	749	88 - 474	2154	Met-1 to Phe-8.	AR039: 7, AR096: 5, AR053: 5, AR089: 5, AR052: 5, AR033: 5, AR104: 4, AR055: 4, AR060: 3, AR061: 2 L0754: 6, S0420: 5, L0758: 5, H0617: 3, H0521: 1.				104-124, 42-60, 70- 88

740	HEMGJ42	869128	750	213 - 662	2155	Trp-8 to Ser-16.	3, L0741: 3, L0742: 3, L0743: 3, L0744: 3, H0242: 2, L0662: 2, L0775: 2, S0126: 2, L0748: 2, L0740: 2, L0751: 2, L0592: 2, S0040: 1, H0294: 1, H0657: 1, S0212: 1, H0662: 1, S0418: 1, S0132: 1, H0442: 1, H0497: 1, H0052: 1, H0545: 1, H0041: 1, H0292: 1, T0023: 1, H0124: 1, S0036: 1, H0412: 1, H0413: 1, H0059: 1, L0770: 1, L5575: 1, L0650: 1, L0651: 1, L0554: 1, L0805: 1, L0776: 1, L0661: 1, L0809: 1, L0792: 1, L0664: 1, L0665: 1, H0520: 1, H0690: 1, H0682: 1, H0672: 1, H0651: 1, H0436: 1, L0611: 1, L0439: 1, L0747: 1, L0750: 1, L0756: 1, L0755: 1, S0436: 1, L0581: 1, S0196: 1, H0506: 1 and H0352: 1. AR039: 19, AR055: 19, AR033: 15, AR104: 14, AR053: 14, AR089: 12, AR052: 9, AR096: 9, AR060: 8, AR061: 8				85-101
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741	HUSYN11	869192	751	505 - 1443	2156	Met-1 to Glu-6, Gly-15 to Ser-28, Arg-33 to Glu-49, Asn-56 to Tyr-65, Leu-105 to Phe-120, Leu-130 to Ser-142.			AR039: 19, AR033: 15, AR052: 12, AR061: 11, AR053: 11, AR089: 11, AR055: 10, AR096: 9, AR060: 7, AR104: 7 H0413: 1		67-99	
742	HTADJ34	869206	752	141 - 620	2157	Ser-5 to Ser-10, Ala-19 to Leu-24, Val-31 to Leu-37, Arg-76 to Lys-81, Leu-84 to Glu-92.		2p12	AR052: 53, AR033: 23, AR053: 15, AR096: 7, AR089: 6, AR060: 6, AR061: 4, AR055: 4, AR104: 2, AR039: 1 H0292: 2, H0059: 2, H0149: 1, H0294: 1, S0282: 1, H0484: 1, H0483: 1, H0661: 1, S0418: 1, H0619: 1, H0550: 1, H0069: 1, H0051: 1, T0010: 1, H0266: 1, S0364: 1, H0063: 1, H0560: 1, H0646: 1, H0538: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, S0380: 1, S0390: 1, S3014: 1, L0750: 1 and H0543: 1.	147200, 178640, 216900	54-76	
743	HTXPR30	869227	753	196 - 879	2158				AR055: 10, AR052: 7, AR060: 5, AR061: 5, AR053: 4, AR089: 4.		102-128, 72-94, 160-183,	

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AR061: 3, AR060: 3, AR104: 2, AR039: 0 H0556: 12, H0251: 4, S0420: 3, H0013: 3, H0083: 3, H0266: 3, H0264: 3, H0561: 3, L0439: 3, S0046: 2, S0132: 2, H0124: 2, H0135: 2, H0560: 2, S0216: 2, H0547: 2, L0748: 2, H0624: 1, H0265: 1, S0040: 1, S0134: 1, S0430: 1, H0583: 1, H0341: 1, S0212: 1, H0484: 1, S0418: 1, S0356: 1, S0045: 1, H0619: 1, H0351: 1, H0587: 1, H0599: 1, H0590: 1, H0581: 1, H0052: 1, H0046: 1, H0041: 1, S0250: 1, L0456: 1, H0040: 1, S0038: 1, H0100: 1, T0041: 1, T0042: 1, H0494: 1, S0370: 1, H0130: 1, H0529: 1, L0772: 1, L0373: 1, L0764: 1, L0774: 1, L0790: 1, L0665: 1, S0053: 1, H0519: 1, H0435: 1, H0660: 1, L0602: 1, S0152: 1, H0522: 1, S0044: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0777:			663-679, 111-127, 319-335, 469-485
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745	HTXBF16	869270	755	119 - 586	2160	Arg-17 to Val-23.	1, L0759: 1, S0260: 1, H0445: 1, L0596: 1, L0592: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, H0543: 1 and H0423: 1.				29-46, 115-134, 78-94, 51- 67
746	HTXLG13	869344	756	523 - 1020	2161		AR033: 9, AR089: 3, AR052: 2, AR060: 2, AR055: 2, AR096: 1, AR053: 1, AR061: 1, AR104: 0 H0556: 6, H0424: 3, H0265: 1, H0306: 1, H0402: 1, L0794: 1 and L0366: 1.				51-67, 71- 87
747	HEOMD27	869349	757	722 - 1102	2162	Arg-13 to Glu-22, Ser-34 to Phe-44, Ser-46 to Thr-52.	AR052: 9, AR039: 8, AR053: 8, AR096: 6, AR033: 6, AR089: 5, AR055: 4, AR104: 4, AR060: 3, AR061: 2 H0457: 6, H0486: 5, L0439: 5, L0794: 4, L0803: 4, L0742: 4, L0754: 4, L0777: 3, L0599: 3, H0156: 2, H0599: 2, H0014: 2,				72-89, 52- 68

748	HTXHA69	869387	758	46 - 408	2163	Asp-35 to Gly-40, Arg-64 to Val-69.	L0771: 2, L0809: 2, H0478: 2, L0743: 2, L0748: 2, L0749: 2, L0757: 2, L0758: 2, L0595: 2, H0556: 1, H0656: 1, S0418: 1, S0444: 1, L0717: 1, S0222: 1, H0632: 1, T0040: 1, H0052: 1, H0544: 1, L0041: 1, H0373: 1, H0039: 1, H0424: 1, H0405: 1, H0031: 1, H0644: 1, L0055: 1, H0038: 1, H0634: 1, H0551: 1, H0509: 1, S0422: 1, L0761: 1, L0372: 1, L0768: 1, L0766: 1, L0388: 1, L0774: 1, L0775: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0788: 1, L0789: 1, L0666: 1, H0547: 1, H0519: 1, H0672: 1, S0152: 1, L0731: 1, S0031: 1, H0445: 1, L0591: 1, S0242: 1, S0194: 1, S0196: 1 and H0352: 1. AR104: 20, AR033: 18, AR055: 15, AR052: 11, AR060: 9, AR053: 8, AR039: 8, AR096: 8, AR089: 7, AR061: 6 L0142: 2, L0770: 2,				43-60
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749	HFTCV95	869639	759	1877 - 759	2164	Arg-11 to Arg-18.	L0438: 2, L0439: 2, L0752: 2, H0265: 1, S0222: 1, H0013: 1, H0572: 1, H0083: 1, L0455: 1, L0763: 1, L0767: 1, L0748: 1, L0755: 1 and L0592: 1. AR052: 19, AR053: 18, AR089: 16, AR096: 13, AR055: 13, AR060: 12, AR033: 12, AR104: 8, AR039: 7, AR061: 7 H0253: 2, H0520: 2, S0126: 2, L0759: 2, H0556: 1, H0657: 1, S0116: 1, H0450: 1, S0046: 1, H0492: 1, S0049: 1, H0123: 1, H0050: 1, S0036: 1, H0494: 1, H0435: 1, H0670: 1, H0539: 1 and L0731: 1.					198-214, 285-301
750	HTEHC92	869786	760	52 - 456	2165	Met-1 to Lys-8, Arg-20 to Leu-29, Lys-55 to Leu-63, Ser-77 to Gly-83, Pro-126 to Phe-135.	AR055: 7, AR060: 4, AR039: 4, AR052: 4, AR033: 4, AR089: 4, AR104: 4, AR061: 3, AR053: 3, AR096: 2 H0253: 4, H0038: 4, L0794: 4, L0748: 4, L0754: 4, H0677: 4, H0618: 3, H0616: 3, L0806: 3, L0758: 3, H0013: 2, S0150: 2,					100-118, 62-78

751	HTFOL05	869816	761	2003 - 1422	2166	Glu-7 to Phe-12, Pro-49 to Phe-56, Gly-65 to Val-71.	AR039: 1, AR104: 1, AR096: 0, AR061: 0, AR053: 0, AR055: 0, AR089: 0, AR060: 0, AR033: 0 L0591: 10, H0622: 5, S0422: 3, L0803: 3, L0438: 3, L0750: 3, S0134: 2, H0663: 2, H0599: 2, H0050: 2, H0687: 2, L0764: 2, L0662: 2, L0766: 2, L0748: 2, L0779: 2, L0777: 2, L0599: 2, S0196: 2, H0265: 1, H0556: 1, H0662: 1, L0481: 1, S0356: 1, H0580: 1, S0046: 1, S0300: 1, S0222: 1, H0431: 1, H0574: 1, S0474: 1, H0052: 1, H0309: 1, H0083: 1, H0428: 1, H0031: 1, H0644: 1.	L0665: 2, L0439: 2, H0661: 1, S0418: 1, S0410: 1, S0007: 1, S6026: 1, S0300: 1, L0717: 1, H0050: 1, H0266: 1, H0622: 1, L0769: 1, L0637: 1, L0372: 1, L0805: 1, L0776: 1, L0790: 1, S0328: 1, S0206: 1, L0589: 1, H0665: 1 and H0422: 1.						166-191
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752	HTPDV70	869874	762	67 - 501	2167	His-2 to Gln-16, Gly-23 to Ser-28, Met-40 to Asn-45, Gln-76 to Leu-91.	H0628: 1, L0055: 1, H0038: 1, H0616: 1, H0560: 1, H0529: 1, L0372: 1, L0768: 1, L0794: 1, L0519: 1, L0666: 1, L0665: 1, S0216: 1, H0144: 1, S0330: 1, H0518: 1, S0332: 1, S0146: 1, H0555: 1, S0027: 1, L0439: 1, L0754: 1, L0756: 1, L0731: 1, L0595: 1, S0194: 1, H0543: 1, H0423: 1 and S0424: 1.					58-74, 114-130
753	HLYGH73	869917	763	808 - 2	2168	Pro-18 to Leu-46.	AR053: 16, AR096: 14, AR052: 14, AR055: 12, AR089: 9, AR060: 8, AR033: 6, AR061: 6, AR104: 4, AR039: 4 H0591: 2, H0521: 2, S0046: 1, S0010: 1, H0039: 1, H0641: 1, H0519: 1 and H0543: 1.					237-257, 130-146, 71-87, 48- 64

754	HCE3E13	869962	764	299 - 688	2169				H0581: 2, H0264: 2, H0652: 2, S0144: 2, S0002: 2, H0529: 2, L0662: 2, S0436: 2, H0713: 1, S0114: 1, H0254: 1, S0354: 1, S0360: 1, H0580: 1, H0485: 1, H0046: 1, H0594: 1, S6028: 1, H0271: 1, H0416: 1, H0388: 1, H0591: 1, S0440: 1, S0344: 1, S0426: 1, L0761: 1, L0766: 1, L0804: 1, L0655: 1, L0666: 1, L0664: 1, H0698: 1, H0435: 1, S0328: 1, H0539: 1, H0445: 1, S0434: 1, H0542: 1 and H0423: 1.				101-117
755	HRAAH37	869969	765	40 - 489	2170	Met-1 to Asn-8, Ala-16 to Glu-45, Ser-57 to Val-62, Pro-101 to Cys-113.			AR052: 18, AR053: 18, AR055: 14, AR096: 14, AR089: 11, AR104: 9, AR060: 9, AR033: 8, AR039: 7, AR061: 7, H0318: 1, H0052: 1, H0264: 1, S0386: 1 and H0521: 1.				76-93, 126-142

756	HTOFB26	869981	766	77 - 649	2171	Ala-7 to Lys-12, Gln-49 to Asn-56.	H0650: 1, H0318: 1, H0264: 1, H0555: 1 and H0677: 1. AR096: 7, AR060: 6, AR055: 5, AR089: 5, AR039: 5, AR033: 5, AR053: 4, AR052: 4, AR104: 3, AR061: 3 H0264: 1 and L0584: 1.				167-183, 141-157, 13-29
757	HMELR15	870005	767	262 - 2034	2172	Ser-14 to Arg-19, His-76 to Ser-82, Arg-229 to Leu-235, Asp-283 to Gly-289, Leu-301 to Ser-306, Ala-423 to Gln-429, Gly-444 to Thr-459, Ala-490 to Asp-499, Glu-502 to Gly-514, Ser-527 to Tyr-533, Glu-535 to Leu-545, Leu-578 to Arg-584.	AR055: 6, AR052: 4, AR053: 4, AR060: 4, AR033: 3, AR061: 3, AR089: 3, AR104: 3, AR039: 2, AR096: 2 H0046: 16, L0731: 5, L0758: 5, H0013: 4, S0436: 4, L0596: 4, L0766: 3, H0519: 3, H0521: 3, L0759: 3, H0543: 3, S0116: 2, S0222: 2, S0010: 2, H0266: 2, H0616: 2, H0412: 2, H0623: 2, L0655: 2, L0783: 2, H0547: 2, L0743: 2, L0747: 2, L0591: 2, L0362: 2, T0002: 1, S0114: 1, S0218: 1, H0341: 1, S0212: 1, H0663: 1, L0481: 1, S0354: 1, S0410: 1, H0722: 1, S0046: 1, S0132: 1,				211-227, 126-142, 347-363, 462-478, 29-45, 105-121, 237-253, 307-323, 147-163

758	HTDAF92	870067	768	256 - 1011	2173	Leu-23 to Val-28, Gly-94 to Asn-105, Asp-132 to Arg-140, Ser-154 to Asn-164,	S0476: 1, H0393: 1, L0717: 1, H0369: 1, H0392: 1, H0587: 1, T0039: 1, T0040: 1, H0156: 1, H0318: 1, H0230: 1, H0544: 1, H0545: 1, L0041: 1, H0014: 1, H0267: 1, H0252: 1, H0688: 1, H0644: 1, H0606: 1, H0135: 1, H0591: 1, H0038: 1, H0087: 1, H0488: 1, H0413: 1, S0038: 1, T0041: 1, H0561: 1, S0440: 1, H0695: 1, L0369: 1, L0763: 1, L0638: 1, L0764: 1, L0662: 1, L0651: 1, L0806: 1, L0657: 1, L0518: 1, L0809: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, S0013: 1, H0627: 1, S3012: 1, S0027: 1, L0741: 1, L0744: 1, L0748: 1, L0786: 1, L0779: 1, S0031: 1, S0260: 1, L0599: 1, L0608: 1, L0595: 1, S0011: 1, S0242: 1, H0423: 1 and H0422: 1.				178-194
						AR060: 3, AR089: 2, AR033: 2, AR039: 2, AR053: 1, AR055: 1, AR061: 1, AR104: 1,					

759	HTLIV78	870098	769	109 - 603	2174	Pro-9 to Asp-14, Arg-101 to Gln-113.	His-196 to Pro-203, Arg-227 to Ala-232.	AR052: 1, AR096: 1 L0439: 3, S0222: 2, H0543: 2, S0360: 1, H0622: 1, H0063: 1, H0477: 1, T0042: 1, L0369: 1, L0771: 1, L0662: 1, L0659: 1, L0809: 1 and L0786: 1.				67-86, 131-149, 49-66
760	HTLEI29	870142	770	106 - 1287	2175	Thr-92 to Phe-104, Pro-121 to Lys-127, Arg-178 to Gly-184, Ser-219 to Asp-224, Pro-237 to His-242, Ser-348 to Gly-353.		AR055: 17, AR039: 11, AR033: 10, AR053: 10, AR061: 8, AR089: 8, AR052: 7, AR060: 7, AR096: 6, AR104: 5 H0253: 15, H0618: 12, L0758: 11, L0779: 10, H0150: 1, L0768: 1 and L0790: 1.				269-288, 364-380
761	HTLGX79	870181	771	121 - 543	2176	Arg-3 to Ser-9, Gly-15 to Arg-40.		AR055: 7, AR033: 5, AR039: 5, AR096: 5, AR052: 5, AR053: 5, AR104: 4, AR060: 4, AR061: 4, AR089: 3				57-74

762	HHFOV07	870237	772	28 - 975	2177	Pro-116 to Ser-127, Glu-130 to Leu-135.	L0803: 15, L0794: 8, L0731: 7, L0758: 7, H0253: 6, H0618: 4, L0804: 4, L0809: 4, L0439: 4, L0754: 4, S0442: 3, L0752: 3, H0556: 2, S0045: 2, T0010: 2, H0622: 2, H0553: 2, H0135: 2, L0770: 2, L0662: 2, L0775: 2, H0144: 2, L0741: 2, L0747: 2, H0171: 1, H0713: 1, S0218: 1, H0661: 1, S0046: 1, H0550: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, S0010: 1, H0421: 1, H0194: 1, H0564: 1, H0687: 1, H0039: 1, H0616: 1, S0038: 1, H0100: 1, H0633: 1, L0763: 1, L0800: 1, L0642: 1, L0764: 1, L0768: 1, L0776: 1, L0656: 1, L0659: 1, L0382: 1, L0666: 1, H0593: 1, L0740: 1, L0755: 1, L0757: 1, S0434: 1, S0436: 1 and H0665: 1.	AR055: 6, AR060: 5, AR052: 4, AR053: 3, AR089: 2, AR033: 2, AR061: 2, AR096: 1, AR104: 1, AR039: 0			162-178, 95-111, 16-32
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763	HTLDO59	870276	773	40 - 459	2178	Pro-10 to Gly-17, Gly-25 to Thr-37, Asp-39 to Gly-44, Arg-66 to His-71.	H0645: 1 and H0253: 1, AR039: 64, AR053: 43, AR052: 34, AR104: 30, AR033: 29, AR089: 29, AR096: 29, AR055: 28, AR060: 19, AR061: 16 H0618: 5, L0758: 5, S0049: 4, H0253: 3, H0052: 3, H0617: 3, H0494: 3, H0144: 3, L0747: 3, H0341: 2, H0550: 2, H0424: 2, L0794: 2, L0766: 2, L0439: 2, L0751: 2, L0745: 2, L0752: 2, S0436: 2, S0452: 2, H0556: 1, S0114: 1, H0483: 1, S0358: 1, S0360: 1, H0580: 1, S0132: 1, H0261: 1, H0559: 1, H0486: 1, S0280: 1, H0575: 1, L0024: 1, H0546: 1, H0150: 1, H0620: 1, H0024: 1, T0010: 1, S6028: 1, H0179: 1, H0417: 1, H0038: 1, T0067: 1, H0059: 1, T0042: 1, S0144: 1, L0637: 1, L0761: 1, L0768: 1, L0807: 1, L0788: 1, L0791: 1, H0520: 1, H0593: 1, H0684: 1, S0380: 1, H0696: 1, H0555: 1, H0436: 1, L0748:				78-98
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764	HE8TM62	870447	774	8 - 346	2179			1, L0740: 1, L0754: 1, L0779: 1, L0755: 1, L0581: 1, L0698: 1 and S0424: 1. AR061: 4, AR055: 4, AR033: 3, AR052: 3, AR060: 3, AR053: 3, AR096: 3, AR089: 2, AR104: 1, AR039: 0 H0013: 1, H0014: 1, H0087: 1, L0742: 1, L0750: 1 and S0424: 1.			63-85, 26- 44
765	HJBCS70	870457	775	734 - 186	2180	Met-1 to Cys-7, Gly-21 to Val-28, Lys-46 to Ala-56.		AR104: 124, AR061: 112, AR096: 76, AR055: 74, AR053: 64, AR033: 59, AR089: 59, AR060: 57, AR052: 52, AR039: 36 L0731: 3, H0086: 2, H0717: 1, S0212: 1, H0255: 1, S0045: 1, H0493: 1, H0559: 1, H0052: 1, H0620: 1, S6028: 1, T0042: 1, H0478: 1, L0749: 1, L0758: 1 and S0436: 1.			121-143
766	HTFMP59	870490	776	93 - 641	2181			AR060: 1, AR053: 1, AR052: 1, AR033: 1, AR055: 1, AR061: 1, AR089: 1, AR104: 0, AR096: 0, AR039: 0 H0402: 1, S0418: 1,			145-164, 91-108, 126-142

767	HTEOY86	870519	777	366 - 722	2182	His-73 to His-78.	T0003: 1, H0418: 1, L0055: 1, L0378: 1, L0519: 1, L0744: 1, L0751: 1, L0749: 1, L0756: 1, L0752: 1, L0731: 1, L0758: 1, L0587: 1, L0601: 1 and S0424: 1.				33-49, 79-95, 51-67
768	HTEKC55	870560	778	175 - 1164	2183	Ser-4 to Ser-14, Pro-73 to Gly-85, Lys-107 to Gly-115, Gly-201 to Trp-210, Lys-247 to Cys-258, Pro-260 to Cys-265, Thr-281 to Pro-290, Glu-303 to Phe-309.	AR055: 11, AR052: 9, AR053: 8, AR060: 7, AR033: 6, AR061: 5, AR089: 5, AR096: 4, AR039: 3, AR104: 2 H0616: 5, H0619: 1, H0618: 1, H0038: 1, L0806: 1, L0666: 1, L0664: 1 and L0750: 1.				140-159, 167-186, 214-230
769	HTEPK69	870574	779	281 - 2092	2184	Met-1 to Ala-11, Pro-21 to Gln-31, Thr-39 to Glu-55, Leu-59 to Pro-64, Pro-73 to Leu-88, Glu-106 to Glu-116,	AR055: 7, AR060: 6, AR052: 5, AR089: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 4, AR039: 3, AR104: 2 L0794: 6, L0803: 5,				585-601, 357-373, 254-270, 337-353

Pro-149 to Ile-154, Arg-171 to Ile-177, Phe-191 to Pro-201, Arg-291 to Pro-296, His-313 to Asp-318, Pro-441 to Asn-462, Glu-512 to Asp-537, Thr-554 to Glu-568.	L0752: 5, L0758: 5, L0766: 4, H0038: 3, H0616: 3, S0002: 3, L0774: 3, S0126: 3, L0600: 3, H0657: 2, S0418: 2, H0442: 2, H0581: 2, L0483: 2, H0031: 2, H0553: 2, S0344: 2, L0761: 2, L0804: 2, L0655: 2, L0663: 2, L0438: 2, H0682: 2, L0602: 2, L0748: 2, L0439: 2, L0754: 2, L0749: 2, L0777: 2, L0587: 2, S0026: 2, H0265: 1, S0040: 1, T0049: 1, H0583: 1, H0662: 1, S0420: 1, S0358: 1, S0045: 1, H0550: 1, H0431: 1, H0453: 1, H0370: 1, H0497: 1, H0574: 1, H0485: 1, T0060: 1, H0013: 1, T0082: 1, H0253: 1, S0346: 1, H0318: 1, H0196: 1, H0052: 1, L0118: 1, H0012: 1, H0017: 1, T0006: 1, H0644: 1, H0400: 1, H0591: 1, H0063: 1, T0067: 1, H0264: 1, H0488: 1, H0623: 1, H0494: 1, S0016: 1, H0561: 1, S0142: 1, L0638: 1, L0643: 1, L0662: 1, L0499: 1, L0651: 1.
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770	HTENV57	870594	780	105 - 497	2185	Ser-2 to Arg-8, Arg-16 to Ser-22, Glu-33 to Asn-40, Lys-70 to Gln-80, Tyr-88 to Lys-94, Lys-110 to Gln-122.			AR055: 10, AR061: 5, AR053: 5, AR060: 5, AR089: 4, AR033: 4, AR052: 4, AR096: 3, AR039: 3, AR104: 2, H0616: 5 and H0038: 1.			44-64	
771	HTEJF45	870668	781	135 - 500	2186	Ser-6 to Pro-13, His-15 to Thr-21, Ser-55 to Pro-66, Asn-94 to Ser-101.			AR039: 45, AR053: 33, AR052: 30, AR055: 27, AR096: 25, AR033: 23, AR089: 22, AR060: 21, AR104: 17, AR061: 14, H0618: 2, H0038: 2, L0807: 2, L0768: 1, L0794: 1 and L0758: 1.			101-117	
772	HTEGF16	870701	782	299 - 817	2187	Gln-39 to Asp-51, Gln-102 to Leu-107, Pro-118 to Arg-131.			AR039: 39, AR052: 26, AR033: 25, AR053: 22, AR055: 22, AR096: 19, AR104: 19, AR060: 18, AR089: 18, AR061: 13, L0803: 8, H0318: 4, L0800: 4, L0764: 4, L0766: 4, L0372: 3, L0809: 3,			51-82, 150-166	

773	HLTGU35	870713	783	200 - 520	2188	Met-1 to Tyr-11, Lys-13 to Phe-18, Cys-22 to Gly-27.	L0750: 3, L0777: 3, H0575: 2, S0010: 2, H0038: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0659: 2, S0328: 2, L0758: 2, L0591: 2, H0650: 1, H0484: 1, H0369: 1, H0438: 1, H0618: 1, H0390: 1, H0266: 1, H0644: 1, L0770: 1, L0769: 1, L0772: 1, L0643: 1, L0773: 1, L0648: 1, L0375: 1, L0806: 1, L0789: 1, L0663: 1, L0664: 1, L0438: 1, S0126: 1, S0330: 1, H0696: 1, L0748: 1, L0439: 1, L0740: 1, L0754: 1, L0749: 1 and L0779: 1.	L0750: 3, L0777: 3, H0575: 2, S0010: 2, H0038: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0659: 2, S0328: 2, L0758: 2, L0591: 2, H0650: 1, H0484: 1, H0369: 1, H0438: 1, H0618: 1, H0390: 1, H0266: 1, H0644: 1, L0770: 1, L0769: 1, L0772: 1, L0643: 1, L0773: 1, L0648: 1, L0375: 1, L0806: 1, L0789: 1, L0663: 1, L0664: 1, L0438: 1, S0126: 1, S0330: 1, H0696: 1, L0748: 1, L0439: 1, L0740: 1, L0754: 1, L0749: 1 and L0779: 1.				59-75, 29- 45, 82-98
						AR033: 2, AR096: 2, AR104: 2, AR055: 1, AR089: 1, AR061: 1, AR060: 1, AR052: 0, AR039: 0, AR053: 0 S0422: 2, L0439: 2, H0294: 1, S0134: 1, S0358: 1, S0360: 1, H0586: 1, H0570: 1, H0591: 1, S0142: 1, L0598: 1, L0763: 1, L0770: 1, S0374: 1 and L0589: 1.	AR033: 2, AR096: 2, AR104: 2, AR055: 1, AR089: 1, AR061: 1, AR060: 1, AR052: 0, AR039: 0, AR053: 0 S0422: 2, L0439: 2, H0294: 1, S0134: 1, S0358: 1, S0360: 1, H0586: 1, H0570: 1, H0591: 1, S0142: 1, L0598: 1, L0763: 1, L0770: 1, S0374: 1 and L0589: 1.					

774	HTEDK07	870714	784	21 - 515	2189	Thr-94 to Trp-103, Arg-121 to Trp-140.	AR055: 16, AR039: 14, AR033: 11, AR060: 9, AR104: 9, AR053: 8, AR052: 8, AR096: 7, AR089: 7, AR061: 6 L0754: 3, L0777: 3, L0439: 2, S0116: 1, H0341: 1, H0661: 1, H0038: 1, H0412: 1, L0761: 1, L0667: 1, L0764: 1, L0788: 1, H0435: 1, L0749: 1, L0779: 1 and L0758: 1.				57-75
775	HADGO63	870818	785	1996 - 1418	2190	Ser-33 to Arg-38, Glu-134 to Ser-140, Val-177 to Asn-182.	AR053: 4, AR096: 3, AR033: 3, AR104: 3, AR052: 3, AR039: 3, AR055: 3, AR089: 2, AR061: 1, AR060: 1 L0766: 8, L0438: 4, H0547: 4, L0756: 4, L0748: 3, L0777: 3, H0051: 2, L0754: 2, L0749: 2, L0759: 2, S0040: 1, S0342: 1, T0049: 1, H0638: 1, S0376: 1, S0045: 1, H0619: 1, L0717: 1, H0411: 1, S0220: 1, H0587: 1, H0574: 1, H0427: 1, H0599: 1, S0010: 1, S0346: 1, S0474: 1, H0544: 1, L0471: 1, H0039: 1, H0538: 1, L0770: 1,				70-89, 101-117, 6-22, 52- 68

								L0761: 1, L0771: 1, L0662: 1, L0375: 1, L0805: 1, L0793: 1, L0666: 1, S0053: 1, L0352: 1, S0126: 1, H0435: 1, H0658: 1, H0539: 1, S0152: 1, L0740: 1, L0750: 1, L0755: 1, S0031: 1, L0591: 1 and H0668: 1.				
776	HTAHY24	870826	786	452 - 760	2191	Met-1 to Thr-9, Pro-39 to Ala-48, Pro-51 to Ser-57, Thr-80 to Tyr-92.		AR055: 10, AR060: 6, AR033: 5, AR096: 4, AR061: 4, AR089: 4, AR053: 4, AR052: 4, AR039: 2, AR104: 2 H0635: 2, H0580: 1, H0634: 1, L0731: 1 and L0596: 1.				55-79
777	HDPDO84	870936	787	55 - 567	2192	Ser-35 to Thr-51, Gln-75 to Asp-81, Gly-123 to Asn-135.		AR033: 8, AR089: 6, AR039: 5, AR052: 4, AR053: 4, AR060: 4, AR055: 4, AR096: 3, AR061: 3, AR104: 2 L0755: 12, L0759: 6, L0745: 5, L0794: 4, S0418: 3, L0666: 3, H0520: 3, S0152: 3, L0748: 3, L0779: 3, S0212: 2, H0318: 2, H0031: 2, L0142: 2, H0538: 2, L0766: 2, L0659: 2, L0665: 2, H0519: 2, S0328:				145-171

778	HNTANI1	870937	788	298 - 858	2193		2, L0754: 2, L0747: 2, L0777: 2, L0600: 2, L0470: 1, S0116: 1, S0045: 1, H0587: 1, H0333: 1, H0486: 1, H0581: 1, H0597: 1, L0157: 1, S6028: 1, H0266: 1, S0250: 1, S0022: 1, S0214: 1, T0023: 1, H0383: 1, H0674: 1, H0090: 1, H0038: 1, H0413: 1, H0494: 1, S0438: 1, H0509: 1, L0638: 1, L0637: 1, L0646: 1, L0800: 1, L0363: 1, L0768: 1, L0804: 1, L0774: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0144: 1, H0547: 1, S0126: 1, S0380: 1, H0518: 1, H0521: 1, S0013: 1, H0704: 1, H0478: 1, S0032: 1, L0749: 1, L0756: 1, L0752: 1, L0731: 1, L0584: 1, L0588: 1, H0542: 1, H0543: 1, S0462: 1 and : 1. AR033: 6, AR052: 6, AR096: 4, AR089: 4, AR053: 3, AR039: 3, AR060: 3, AR104: 2, AR055: 2, AR061: 1 L0755: 12, L0759: 6,					94-118, 119-139
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L0745: 5, L0794: 4, S0418: 3, L0666: 3, H0520: 3, S0152: 3, L0748: 3, L0779: 3, S0212: 2, H0318: 2, H0031: 2, L0142: 2, H0538: 2, L0766: 2, L0659: 2, L0665: 2, H0519: 2, S0328: 2, L0754: 2, L0747: 2, L0777: 2, L0600: 2, L0470: 1, S0116: 1, S0045: 1, H0587: 1, H0333: 1, H0486: 1, H0581: 1, H0597: 1, L0157: 1, S6028: 1, H0266: 1, S0250: 1, S0022: 1, S0214: 1, T0023: 1, H0383: 1, H0674: 1, H0090: 1, H0038: 1, H0413: 1, H0494: 1, S0438: 1, H0509: 1, L0638: 1, L0637: 1, L0646: 1, L0800: 1, L0363: 1, L0768: 1, L0804: 1, L0774: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0144: 1, H0547: 1, S0126: 1, S0380: 1, H0518: 1, H0521: 1, S0013: 1, H0704: 1, H0478: 1, S0032: 1, L0749: 1, L0756: 1, L0752: 1, L0731: 1, L0584: 1, L0588: 1, H0542: 1, H0543: 1,									
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779	HTTBJ31	870946	789	463 - 783	2194	Pro-17 to Arg-25, Ser-48 to Arg-67.	S0462: 1 and : 1. AR060: 75, AR104: 74, AR061: 72, AR033: 68, AR039: 57, AR055: 53, AR089: 41, AR052: 27, AR096: 20, AR053: 19 L0774: 6, H0046: 5, H0012: 3, H0333: 2, L0769: 2, H0662: 1, H0550: 1, H0370: 1, H0036: 1, T0003: 1, H0040: 1, L0768: 1, L0803: 1, L0659: 1, L0792: 1, L0666: 1 and H0008: 1.				65-95
780	HAMGO24	870957	790	136 - 549	2195	Ser-12 to Leu-17, Lys-32 to Val-38.	AR052: 5, AR053: 4, AR096: 3, AR039: 3, AR089: 3, AR033: 2, AR060: 2, AR104: 2, AR061: 1, AR055: 1 L0766: 9, L0742: 6, L0803: 5, S0358: 3, H0521: 3, L0777: 3, L0758: 3, H0413: 2, S0466: 2, L0775: 2, L0666: 2, L0779: 2, L0752: 2, S0444: 1, S0360: 1, H0393: 1, H0587: 1, H0486: 1, H0013: 1, H0069: 1, H0575: 1, H0052: 1, H0545: 1, H0510: 1, H0687: 1, S0003: 1, H0553: 1,				51-67, 72- 88

781	HODFK55	870975	791	523 - 915	2196	Cys-12 to Tyr-23.	H0551: 1, H0560: 1, H0509: 1, H0646: 1, S0422: 1, L0598: 1, L0762: 1, L0641: 1, L0794: 1, L0804: 1, L0651: 1, L0659: 1, L0664: 1, H0519: 1, H0522: 1, L0755: 1, S0031: 1, H0653: 1, H0542: 1 and S0412: 1.	5p15.2	123000, 602568	97-113, 77-93	
782	HBJMW49	871019	792	107 - 457	2197	Glu-34 to Lys-48.	AR096: 14, AR089: 11, AR055: 9, AR060: 9, AR033: 9, AR053: 7, AR052: 7, AR061: 5, AR104: 4, AR039: 4 H0580: 2, H0615: 2, H0619: 1, H0645: 1, H0549: 1, H0392: 1, H0581: 1, T0042: 1, L0766: 1, H0522: 1 and H0343: 1.			2-28, 96- 112	
783	HSXDF62	871038	793	82 - 420	2198	Asp-37 to His-51.	AR033: 11, AR055: 11, AR060: 7, AR061: 5, AR089: 5, AR052: 4, AR096: 4, AR053: 4, AR039: 3, AR104: 2			62-82, 97- 113, 3-19	

784	HSVCE22	871088	794	78 - 440	2199			H0586: 1 and S0036: 1. AR052: 14, AR089: 10, AR053: 10, AR096: 9, AR055: 9, AR033: 7, AR060: 7, AR039: 6, AR104: 4, AR061: 4 H0309: 1, L0768: 1, L0527: 1 and L0749: 1.				43-64, 98-114
785	HFKLC74	871186	795	2045 - 687	2200	Gly-15 to His-26, Pro-28 to Asn-35, Pro-81 to Asn-98, Pro-118 to Arg-125.		AR060: 1, AR053: 1, AR033: 1, AR061: 1, AR096: 1, AR089: 1, AR104: 1, AR039: 0, AR055: 0, AR052: 0 L0794: 5, L0743: 4, H0265: 3, S0418: 3, H0620: 3, H0040: 3, H0561: 3, L0662: 3, L0803: 3, L0809: 3, L0759: 3, H0592: 2, H0559: 2, H0253: 2, H0318: 2, H0086: 2, H0494: 2, L0771: 2, L0766: 2, L0659: 2, L0352: 2, H0659: 2, H0670: 2, H0555: 2, S3012: 2, S0027: 2, L0748: 2, L0750: 2, H0542: 2, H0556: 1, H0650: 1, H0341: 1, H0484: 1, H0402: 1, S0354: 1, S0360: 1, H0580: 1, H0586: 1, H0497: 1, H0333:				97-116, 128-145, 162-178, 236-252

786	HTLEV30	871212	796	189 - 506	2201		1, H0331: 1, H0257: 1, T0040: 1, H0427: 1, H0599: 1, H0052: 1, T0115: 1, H0545: 1, H0050: 1, H0083: 1, S0316: 1, H0284: 1, H0424: 1, H0181: 1, L0055: 1, S0364: 1, S0366: 1, H0551: 1, H0412: 1, H0413: 1, T0042: 1, H0560: 1, H0509: 1, S0344: 1, H0529: 1, L0640: 1, L0646: 1, L0643: 1, L0764: 1, L0648: 1, L0389: 1, L0655: 1, L0664: 1, L0665: 1, H0144: 1, H0697: 1, H0520: 1, H0593: 1, H0711: 1, H0521: 1, H0696: 1, H0436: 1, H0540: 1, L0744: 1, L0747: 1, L0757: 1, H0445: 1, H0653: 1, H0667: 1 and L0697: 1.					
							AR061: 3, AR033: 3, AR089: 3, AR052: 3, AR055: 3, AR060: 2, AR096: 2, AR053: 1, AR104: 1, AR039: 0 H0046: 4, H0688: 2, H0539: 2, L0779: 2, H0739: 1, H0717: 1, H0550: 1, L0021: 1, H0253: 1, L0118:					81-106, 57-79

787	HSRAV54	871264	797	969 - 1280	2202	Met-1 to Lys-9, Ala-11 to Trp-22, Pro-82 to Glu-92.	1, H0286: 1, H0100: 1, H0509: 1, L0373: 1, L0643: 1, L0645: 1, L0657: 1, H0435: 1, H0696: 1, L0749: 1, L0780: 1, L0755: 1, H0543: 1, S0042: 1 and H0677: 1.				49-65
788	HTLID05	871356	798	157 - 1008	2203		AR096: 32, AR089: 19, AR039: 19, AR052: 17, AR053: 16, AR060: 16, AR055: 14, AR033: 12, AR104: 11, AR061: 5 S0011: 3, H0306: 1, H0402: 1, L0004: 1, H0486: 1, H0050: 1, S0051: 1, H0494: 1 and S0002: 1. AR033: 15, AR055: 7, AR060: 4, AR061: 3, AR089: 3, AR052: 3, AR053: 3, AR104: 2, AR096: 2 S0282: 2, L0769: 2, L0794: 2, L0665: 2, L0438: 2, H0618: 1, S0010: 1, S0049: 1, H0052: 1, H0194: 1, S0051: 1, T0041: 1, L0770: 1, L0639: 1, L0761: 1, L0659: 1, L0809: 1, L0666: 1, L0352: 1, L0612:				44-60, 160-176, 61-77

789	HDACG50	871387	799	180 - 551	2204		1, L0439: 1, L0779: 1 and L0366: 1. AR052: 5, AR089: 5, AR060: 4, AR053: 4, AR096: 3, AR033: 3, AR104: 2, AR039: 1, AR055: 1, AR061: 1 L0748: 10, L0752: 9, L0731: 8, S0380: 7, L0758: 7, L0747: 6, H0038: 4, L0766: 4, L0438: 4, L0749: 4, S0003: 3, L0638: 3, L0768: 3, L0754: 3, L0770: 2, L0769: 2, L0774: 2, L0659: 2, H0522: 2, L0439: 2, L0740: 2, L0750: 2, L0786: 2, L0757: 2, L0759: 2, L0595: 2, L0362: 2, L0601: 2, S0040: 1, H0656: 1, S0354: 1, S0358: 1, T0008: 1, H0580: 1, S0045: 1, H0612: 1, H0497: 1, L0586: 1, H0013: 1, H0250: 1, H0635: 1, H0004: 1, S0010: 1, L0105: 1, H0546: 1, H0457: 1, H0083: 1, S0022: 1, S0214: 1, L0483: 1, H0031: 1, H0032: 1, H0673: 1, H0090: 1, H0412: 1, L0351: 1, H0494: 1,				87-103
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790	HWAGU6 2	871413	800	19 - 732	2205	Pro-94 to Lys-100, Glu-142 to Gln-147.	<p>H0633: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0775: 1, L0653: 1, L0384: 1, L0383: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, S0152: 1, H0521: 1, H0696: 1, H0555: 1, S0028: 1, S0260: 1, S0436: 1, L0589: 1, S0242: 1, S0194: 1, H0423: 1, H0422: 1 and S0424: 1.</p> <p>AR096: 6, AR039: 6, AR052: 6, AR089: 5, AR033: 5, AR053: 4, AR060: 4, AR055: 3, AR061: 3, AR104: 3, S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142: 1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804:</p>					211-238, 68-93, 146-164, 178-197, 1-22, 29-45
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791	HOEBN65	871416	801	122 - 577	2206	Phe-17 to Ala-26, Arg-44 to Ile-51, Lys-64 to Asp-72, Thr-100 to Leu-110.	1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.					120-148
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792	HOEEY60	871485	802	155 - 499	2207	Lys-38 to Ser-45.	1, H0149: 1, H0265: 1, H0140: 1, H0295: 1, H0294: 1, S0430: 1, H0657: 1, H0341: 1, H0484: 1, H0402: 1, H0125: 1, S0420: 1, S0360: 1, S0410: 1, L0467: 1, H0441: 1, H0370: 1, H0330: 1, H0600: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, H0486: 1, H0156: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0196: 1, H0204: 1, H0545: 1, H0123: 1, H0320: 1, H0014: 1, H0399: 1, H0594: 1, H0687: 1, H0252: 1, H0615: 1, T0006: 1, H0604: 1, H0182: 1, H0090: 1, H0616: 1, H0087: 1, H0412: 1, S0150: 1, S0142: 1, L0763: 1, L0761: 1, L0772: 1, L0764: 1, L0794: 1, L0533: 1, L0775: 1, L0653: 1, L0655: 1, L0659: 1, L0530: 1, S0330: 1, H0696: 1, S0406: 1, L0740: 1, L0754: 1, L0753: 1, H0667: 1, S0192: 1 and H0543: 1.				15-37, 83- 99, 53-69
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793	HHECK12	871540	803	2 - 967	2208	Lys-14 to Gly-19, Asp-62 to Ile-67, Asn-87 to Glu-107.	L0438: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, L0754: 1, L0755: 1, L0759: 1, S0434: 1, S0276: 1 and H0008: 1. AR104: 9, AR033: 9, AR039: 7, AR060: 7, AR089: 4, AR052: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1 S0010: 1, S0374: 1, L0366: 1, S0276: 1 and H0542: 1.				30-59, 17- 39, 233- 249
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795	HPMJT61	871619	805	31 - 498	2210		AR055: 7, AR052: 5, AR060: 4, AR089: 4, AR033: 4, AR061: 4, AR053: 3, AR096: 3, AR104: 2, AR039: 1 L0748: 4, L0809: 3, L0439: 3, L0777: 2, L0589: 2, S0278: 1, H0024: 1, H0644: 1, L0791: 1, H0547: 1, L0749: 1 and H0352: 1.				104-127
796	HHEOI72	871663	806	237 -	2211	Lys-4 to Arg-9,	AR052: 3, AR089: 3,				9-32, 170-

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797	HAPRN77	871674	807	26 - 379 2212		AR055: 21, AR033: 18, AR060: 14, AR039: 13, AR104: 11, AR052: 11, AR061: 11, AR089: 8, AR053: 6, AR096: 3 L0439: 3, H0351: 2, H0575: 2, L0794: 2, L0803: 2, L0751: 2, S0242: 2, S0358: 1, H0392: 1, H0333: 1, H0390: 1, L0471: 1, H0553: 1, H0264: 1, L0645: 1, L0766: 1, S0028: 1, L0748: 1, L0747: 1, L0749: 1, L0777: 1, L0601: 1, S0194: 1 and S0196: 1.			36-55

798	HLJDL43	871689	808	577 - 972	2213	His-2 to Gly-19, Gly-63 to Gly-70, Pro-89 to Ser-95, Lys-105 to Ser-118.	AR053: 27, AR052: 23, AR096: 23, AR033: 20, AR039: 19, AR104: 18, AR089: 14, AR060: 12, AR055: 11, AR061: 6 L0766: 8, H0521: 4, L0748: 4, L0439: 4, S0360: 3, H0581: 2, L0471: 2, H0135: 2, H0264: 2, L0805: 2, L0776: 2, L0754: 2, L0599: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, S0040: 1, H0657: 1, H0662: 1, S0045: 1, S0222: 1, H0592: 1, H0485: 1, H0599: 1, H0575: 1, H0618: 1, S0010: 1, H0545: 1, H0009: 1, H0014: 1, T0010: 1, H0510: 1, H0375: 1, S0022: 1, H0591: 1, H0100: 1, S0142: 1, L0770: 1, L0761: 1, L0794: 1, L0375: 1, S0216: 1, S0374: 1, L0438: 1, H0520: 1, H0539: 1, S0027: 1, L0740: 1, L0751: 1, L0777: 1, L0752: 1, L0757: 1, L0759: 1, L0594: 1, L0366: 1, H0542: 1 and H0543: 1.			39-61, 71- 87
799	HTXOX92	871693	809	131 -	2214	Ser-31 to Trp-37,	AR033: 20, AR052: 14,		159-176,	

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800	HLJDU57	871712	810	10 - 435	2215	Glu-79 to Tyr-86.	H0506: 1. AR096: 6, AR089: 4, AR052: 3, AR060: 3, AR053: 2, AR033: 2, AR055: 2, AR061: 1, AR104: 1, AR039: 1 H0375: 1, L0649: 1 and H0522: 1.				1-30, 24- 49, 92- 113, 118- 142, 51-71
801	HHFKL03	871735	811	38 - 718	2216	Ile-11 to Arg-16, Val-18 to Ser-25, Ser-28 to Thr-36, Glu-41 to Ser-46.	AR033: 10, AR089: 8, AR052: 7, AR053: 6, AR060: 6, AR096: 6, AR104: 5, AR055: 4, AR039: 3, AR061: 2				122-145, 66-83, 147-163, 171-187, 190-206, 48-64
802	HNTTB69	871818	812	540 - 839	2217	Pro-71 to Pro-80, Pro-87 to Phe-92, Leu-95 to Thr-100.	AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR061: 0, AR033: 0, AR039: 0, AR055: 0, AR052: 0 L0595: 14, H0521: 7, L0783: 5, H0520: 5, H0547: 5, L0593: 5, S0356: 3, H0615: 3, L0794: 3, L0776: 3, H0519: 3, L0747: 3, L0596: 3, H0599: 2, H0251: 2, H0622: 2, H0038: 2, H0494: 2, L0769: 2, L0764: 2, L0771: 2, L0766: 2, L0740: 2, L0754: 2, L0755:				53-69

803	HKAAA37	871827	813	323 - 886	2218	Ile-162 to Pro-168, Glu-175 to Lys-188.	2, L0731: 2, H0657: 1, H0341: 1, H0663: 1, S0408: 1, S0045: 1, H0393: 1, H0331: 1, H0574: 1, T0114: 1, H0318: 1, H0046: 1, H0266: 1, H0328: 1, H0039: 1, H0591: 1, T0042: 1, H0561: 1, H0641: 1, S0002: 1, L0761: 1, L0800: 1, L0498: 1, L0803: 1, L0774: 1, L0805: 1, L0657: 1, S0126: 1, H0435: 1, S0454: 1, H0134: 1, H0436: 1, S0027: 1, L0749: 1, L0750: 1, L0591: 1, H0667: 1, H0542: 1, H0543: 1 and H0423: 1.					104-120, 80-97, 54- 70, 12-28, 122-138, 32-48
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805	HMAKM2 7	871887	815	866 - 1252	2220			2, L0758: 2, L0604: 2, H0624: 1, H0351: 1, H0586: 1, H0333: 1, H0427: 1, S0280: 1, L0021: 1, S0010: 1, H0194: 1, H0620: 1, H0051: 1, H0033: 1, H0090: 1, H0038: 1, L0637: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0776: 1, L0512: 1, L0783: 1, L0809: 1, L0663: 1, H0547: 1, H0682: 1, S3014: 1, L0439: 1, L0752: 1 and H0506: 1.				58-82, 12- 28
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806	HTLEO76	871905	816	80 - 439	2221	Arg-16 to Thr-22.	AR096: 34, AR039: 27, AR089: 25, AR104: 18, AR060: 16, AR052: 14, AR033: 11, AR053: 10, AR055: 9, AR061: 6 H0253: 1, H0050: 1 and L0794: 1.				100-120, 54-71, 1-17		
807	HTPBR76	871944	817	467 - 856	2222	Met-1 to Ser-7.	AR033: 9, AR104: 6, AR055: 5, AR061: 5, AR039: 4, AR053: 3, AR060: 3, AR089: 3, AR052: 2 AR096: 2				41-57, 10-26		

808	HNTNH42	871982	818	1 - 768	2223	Ala-9 to Thr-14, Pro-25 to Asp-37, Gln-52 to Ile-59, Thr-80 to Pro-93.	L0771: 2, L0662: 2, L0756: 2, L0591: 2, S0282: 1, S0358: 1, S0444: 1, S0408: 1, S0010: 1, S0049: 1, H0327: 1, H0569: 1, H0014: 1, H0051: 1, H0039: 1, L0770: 1, L3905: 1, L0761: 1, L0774: 1, L0659: 1, L0789: 1, S0374: 1, L0438: 1, L0439: 1, L0747: 1, L0779: 1, L0777: 1, S0260: 1 and L0596: 1. AR052: 218, AR096: 199, AR089: 163, AR053: 162, AR060: 131, AR039: 50, AR033: 46, AR061: 41, AR104: 38, AR055: 18 L0731: 9, L0665: 6, H0024: 4, L0745: 4, L0747: 4, L0662: 3, L0794: 3, H0550: 2, H0081: 2, H0012: 2, S0022: 2, H0100: 2, L0769: 2, L0764: 2, L0659: 2, H0520: 2, L0777: 2, L0759: 2, H0685: 1, S0040: 1, S0354: 1, H0351: 1, H0392: 1, H0586: 1, L0021: 1, H0253: 1, L0157: 1, H0123: 1, H0050: 1, L0471: 1, H0328: 1, H0615: 1.					120-152
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809	HFRCB84	871985	819	123 - 554	2224				H0063: 1, L0598: 1, L0770: 1, L0638: 1, L0521: 1, L0768: 1, L0776: 1, L0629: 1, L0657: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, S0148: 1, H0670: 1, H0134: 1 and L0779: 1.				1-35, 29-50, 76-94, 101-117
810	HLWDZ48	871994	820	97 - 645	2225				AR055: 4, AR039: 0, AR061: 0, AR096: 0, AR060: 0, AR089: 0 H0738: 1, S0220: 1 and S0050: 1. AR033: 16, AR096: 13, AR053: 13, AR104: 13, AR089: 12, AR052: 12, AR060: 8, AR039: 8, AR061: 6, AR055: 5 L0755: 20, L0740: 18, L0748: 14, L0749: 11, L0750: 10, L0766: 9, H0494: 8, L0769: 8, L0752: 8, L0754: 7, L0771: 6, L0758: 6, S0028: 5, L0747: 5, L0591: 5, S0360: 4, H0266: 4, H0657: 3, S0045: 3, H0575: 3, S0010: 3, L0768: 3, L0665: 3, S0126: 3, S0152: 3, L0439: 3, L0753: 3, L0731: 3, L0757:				129-148, 99-115, 79-95

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811	HKAOC61	872013	821	170 - 628	2226			1, H0316: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, H0334: 1, S0150: 1, H0130: 1, S0210: 1, S0422: 1, L0638: 1, L0667: 1, L0372: 1, L0803: 1, L0774: 1, L0376: 1, L0784: 1, L0655: 1, L0659: 1, L0383: 1, L0382: 1, L0809: 1, L0792: 1, S0216: 1, H0144: 1, H0691: 1, S0148: 1, H0593: 1, H0682: 1, S0330: 1, H0521: 1, H0522: 1, H0704: 1, H0436: 1, S0027: 1, L0786: 1, L0759: 1, H0707: 1, L0480: 1, L0604: 1, S0192: 1 and S0460: 1.			55-73, 6- 22, 84- 100, 24-40
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812	HHEMJ13	872036	822	31 - 648	2227	Asn-33 to Thr-38,	2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.					106-122,
						AR052: 12, AR096: 7,						

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813	HTFOA36	872070	823	41 - 871	2228	Arg-13 to Arg-34, Gly-45 to Asn-50, His-198 to Pro-211, His-255 to Tyr-262.	AR096: 1, AR052: 1, AR089: 0, AR055: 0, AR061: 0, AR039: 0, AR060: 0, AR033: 0, AR104: 0, AR053: 0 S0053: 1, S0216: 1 and S0424: 1.				163-196, 73-89	
814	HULEW22	872087	824	49 - 432	2229	Tyr-26 to Thr-34.	AR096: 2, AR089: 1, AR104: 1, AR033: 1, AR060: 0, AR061: 0, AR053: 0, AR052: 0, AR039: 0 H0208: 1, H0530: 1, H0494: 1 and L0654: 1.				56-73	
815	HWADE54	872092	825	2324 - 591	2230		AR096: 3, AR061: 2, AR089: 2, AR060: 2, AR055: 1, AR053: 1, AR033: 1, AR052: 1, AR104: 0 H0617: 6, L0794: 6,				434-457, 352-372, 464-481, 498-514, 90-108, 415-431,	

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816	HEMH46	872093	826	60 - 596	2231	Ala-14 to Gly-23, Gly-28 to Ser-34, Gly-56 to Pro-66, Asp-74 to Ala-80, Pro-109 to Tyr-114, Pro-165 to Gln-174.	L0646: 1, L0374: 1, L0644: 1, L0764: 1, L0771: 1, L0649: 1, L0659: 1, L0542: 1, L0783: 1, L0789: 1, L0790: 1, L0792: 1, L0666: 1, S0053: 1, S0216: 1, H0144: 1, L0352: 1, H0547: 1, H0593: 1, H0689: 1, H0435: 1, H0670: 1, S0330: 1, H0521: 1, S0406: 1, H0631: 1, S3012: 1, S3014: 1, L0749: 1, L0755: 1, H0445: 1, S0436: 1, L0595: 1, S0011: 1, H0542: 1, H0423: 1 and H0506: 1.				135-152
817	HFPIX46	872113	827	1042 - 1389	2232	Met-1 to Ser-8, Arg-55 to Gly-60, Val-93 to Leu-99.	AR055: 8, AR033: 8, AR060: 5, AR061: 5, AR052: 4, AR096: 4, AR053: 4, AR104: 4, AR089: 3, AR039: 2 H0550: 1, S0222: 1, H0057: 1, S6028: 1, H0031: 1, H0560: 1, S0002: 1,				62-79, 98- 114

818	HHPDK44	872141	828	158 - 733	2233		S0426: 1, L0769: 1, L0775: 1, L0741: 1, L0740: 1, L0758: 1 and L0366: 1. AR096: 2, AR055: 2, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR053: 0, AR039: 0, AR033: 0, AR052: 0 L0805: 5, L0750: 3, L0777: 3, H0591: 2, L0803: 2, L0804: 2, H0520: 2, H0547: 2, L0744: 2, L0779: 2, L0752: 2, L0731: 2, S0282: 1, S0360: 1, S0300: 1, H0411: 1, H0013: 1, H0599: 1, H0042: 1, H0581: 1, H0251: 1, H0596: 1, H0123: 1, H0620: 1, H0014: 1, H0051: 1, H0328: 1, H0553: 1, H0169: 1, H0413: 1, S0422: 1, L0776: 1, L0791: 1, H0144: 1, H0519: 1, H0521: 1, H0522: 1, L0356: 1, L0439: 1, L0756: 1, L0780: 1, L0753: 1 and L0759: 1.			53-91, 51-67
819	HE2FK85	872190	829	296 - 841	2234		AR033: 2, AR096: 2, AR104: 2, AR053: 2, AR060: 2, AR061: 2.			4-26, 38-64, 81-110, 154-

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820	HPQSL36	872224	830	48 - 404	2235			1, H0648: 1, S0330: 1, H0539: 1, H0521: 1, H0522: 1, S0404: 1, S0028: 1, S0206: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, S0434: 1, L0480: 1, L0591: 1, H0668: 1, S0026: 1, H0667: 1 and H0008: 1.				53-83, 73- 95, 101- 118, 20- 36, 2-18
821	HEQBF64	872357	831	18 - 680	2236	Thr-68 to Gln-82, Val-198 to Val-203, Glu-205 to Asp-221.		AR039: 60, AR052: 32, AR053: 32, AR104: 27, AR033: 27, AR055: 26, AR089: 24, AR096: 21, AR060: 20, AR061: 12 S0136: 1 and H0521: 1. AR052: 13, AR053: 11, AR033: 10, AR060: 10, AR096: 9, AR061: 8, AR089: 7, AR104: 6, AR039: 5, AR055: 4 L0766: 11, H0556: 8, L0731: 6, H0265: 4, H0009: 3, H0083: 3, H0124: 3, H0509: 3, L0752: 3, S0116: 2, H0638: 2, S0356: 2, S0354: 2, S0408: 2, S0346: 2, H0560: 2, S0002: 2, L0805: 2, L0659: 2, L0438: 2, S0126: 2, L0740: 2,				6-24, 27- 46, 89- 105, 114- 130, 163- 179

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822	HAMGB22	872526	832	2389 - 2081	2237	Lys-25 to Gln-31, Gln-94 to Tyr-103.	S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1. AR033: 3, AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR060: 2, AR104: 2, AR039: 2, AR055: 2, AR061: 1 L0766: 7, L0758: 3, L0759: 3, H0038: 2, H0560: 2, L0804: 2, L0775: 2, L0751: 2, L0779: 2, L0595: 2, H0656: 1, S0212: 1, H0664: 1, S0354: 1, L0011: 1, H0156: 1, H0599: 1, S0346: 1, H0581: 1, H0673: 1, H0591: 1, H0413: 1, H0623: 1, S0038: 1, L0370: 1, H0561: 1, S0422: 1, L0770: 1, L0772: 1, L0642: 1, L0803: 1, L0774: 1, L0656: 1, L0663: 1, S0428: 1, H0519: 1, S0330: 1, H0539: 1, H0521: 1, H0555: 1, H0576: 1, L0588: 1, L0605: 1 and H0667: 1.					66-83, 7- 23
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823	HDABD89	872527	833	57 - 1514	2238	His-66 to Pro-80, Gly-139 to Ser-146, Phe-270 to Lys-275.	AR055: 4, AR089: 3, AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 0 L0439: 26, L0438: 8, S0007: 7, H0547: 5, L0754: 5, H0618: 4, H0546: 4, H0617: 4, L0747: 4, S0376: 3, H0013: 3, H0253: 3, H0052: 3, H0009: 3, L0769: 3, S0206: 3, L0748: 3, H0295: 2, S0045: 2, S0046: 2, H0370: 2, H0123: 2, L0471: 2, H0135: 2, H0100: 2, L0766: 2, H0144: 2, H0539: 2, L0758: 2, L0588: 2, L0595: 2, L0411: 1, H0170: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0657: 1, H0663: 1, H0662: 1, L0717: 1, H0602: 1, H0497: 1, H0333: 1, T0039: 1, H0156: 1, H0599: 1, T0048: 1, H0196: 1, H0545: 1, H0178: 1, H0567: 1, H0620: 1, H0023: 1, S0051: 1, T0010: 1, H0266: 1, S0022: 1, H0039: 1, H0628: 1, H0606: 1, H0032: 1,				149-165, 216-232
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824	HPMFU11	873145	834	1081 - 644	2239			H0383: 1, H0090: 1, H0087: 1, H0551: 1, T0067: 1, H0268: 1, H0412: 1, T0042: 1, H0494: 1, S0210: 1, L0369: 1, L0796: 1, L0800: 1, L0645: 1, L0764: 1, L0768: 1, L0540: 1, L0518: 1, L0783: 1, L0519: 1, H0520: 1, H0659: 1, H0658: 1, H0670: 1, H0672: 1, H0696: 1, S0044: 1, H0627: 1, S3014: 1, S0027: 1, S0028: 1, L0742: 1, L0779: 1, L0780: 1, L0757: 1, S0031: 1, T0047: 1 and H0008: 1.				83-109
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825	HHEFL55	873186	835	98 - 661	2240	Asp-2 to Arg-9.	AR089: 1, AR033: 1, AR055: 1, AR061: 0,	2, S0442: 2, H0586: 2, H0587: 2, H0427: 2, H0581: 2, L0157: 2, L0769: 2, L0775: 2, L0806: 2, L0659: 2, L0665: 2, H0144: 2, S0374: 2, L0438: 2, L0731: 2, L0596: 2, L0599: 2, H0685: 1, S0116: 1, H0306: 1, S0358: 1, S0408: 1, H0592: 1, H0706: 1, H0036: 1, S0346: 1, L0307: 1, H0251: 1, H0309: 1, T0110: 1, H0231: 1, H0057: 1, H0014: 1, H0510: 1, S0250: 1, H0252: 1, T0006: 1, H0030: 1, H0031: 1, H0553: 1, H0644: 1, H0361: 1, H0591: 1, H0433: 1, S0002: 1, L0761: 1, L0650: 1, L0784: 1, L0805: 1, L0655: 1, L0606: 1, L0515: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, H0690: 1, H0518: 1, S0152: 1, H0521: 1, S0037: 1, L0744: 1, L0777: 1, S0260: 1, L0366: 1, H0677: 1, H0506: 1 and H0008: 1.					145-174, 70-86, 94-
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826	HHFIG66	873355	836	1277 - 2503	2241	Arg-16 to Thr-21, Gly-31 to Thr-36, Thr-53 to Val-68, Val-72 to Ser-86, Ser-121 to Arg-127, Met-151 to Ile-157, Asn-160 to Phe-176, Pro-190 to Val-198, Arg-293 to Gly-298, Glu-304 to Asp-312, Ser-319 to Ser-325, Gln-330 to Glu-336, Leu-386 to Asp-392.	L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, H0668: 1, H0667: 1, S0192: 1 and H0542: 1.				240-257, 86-102, 362-378
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									S0027: 1, L0750: 1, L0601: 1, L0366: 1, S0424: 1 and H0506: 1.				
827	HBMWZ8 5	873653	837	476 - 778	2242	Thr-22 to Thr-33, Leu-92 to Thr-97.			AR052: 114, AR053: 78, AR096: 69, AR055: 65, AR089: 48, AR039: 46, AR033: 46, AR104: 41, AR061: 38, AR060: 37 S0114: 4, S0010: 3, H0059: 3, H0171: 2, S0116: 2, S0046: 2, S0051: 2, S0126: 2, S0134: 1, S0218: 1, H0255: 1, S0045: 1, S6016: 1, S0222: 1, H0632: 1, H0013: 1, H0251: 1, H0263: 1, H0200: 1, H0628: 1, H0674: 1, H0135: 1, H0038: 1, H0087: 1, T0090: 1, S0150: 1, S0142: 1, S0044: 1, H0576: 1 and S0026: 1.				57-76, 2- 18
828	HTTEL61	873679	838	239 - 622	2243	Gln-3 to Trp-10.			AR061: 50, AR033: 45, AR089: 41, AR060: 36, AR055: 35, AR096: 33, AR053: 32, AR052: 32, AR104: 17, AR039: 10 H0040: 2, H0087: 1 and L0750: 1.				67-83
829	HHEKA25	873756	839	61 - 768	2244	Met-1 to Pro-7.			AR061: 11, AR089: 4, L0750: 1.	17p11.2	100710,		122-155,

830	HTLEH76	873788	840	354 - 881	2245			AR039: 4, AR033: 4, AR104: 3, AR060: 3, AR055: 3, AR053: 3, AR052: 3, AR096: 2 L0731: 3, H0556: 2, T0109: 2, H0124: 2, L0754: 2, H0483: 1, S0358: 1, H0599: 1, H0081: 1, H0012: 1, H0024: 1, H0615: 1, H0622: 1, H0316: 1, S0036: 1, H0413: 1, H0130: 1, L0766: 1, S0126: 1 and H0542: 1.	182290, 201475, 270200, 601097, 601097, 601097, 602666	194-216, 86-102, 52-68
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832	HTPHY39	874346	842	410 -	2247	Asp-2 to Asn-9,	H0090: 3, L0770: 3, L0766: 3, H0670: 3, L0747: 3, L0756: 3, L0755: 3, S0354: 2, S0408: 2, H0580: 2, L0021: 2, H0135: 2, L0768: 2, L0805: 2, L0809: 2, L0787: 2, L0438: 2, H0547: 2, S0406: 2, L0754: 2, L0745: 2, L0758: 2, L0759: 2, L0393: 1, H0657: 1, H0656: 1, H0661: 1, H0662: 1, S0356: 1, S0358: 1, S0360: 1, H0549: 1, H0486: 1, H0581: 1, H0009: 1, H0014: 1, H0548: 1, H0268: 1, S0015: 1, S0144: 1, S0344: 1, L0769: 1, L0800: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0632: 1, L0655: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, L0352: 1, H0690: 1, H0521: 1, S0044: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, S0192: 1, H0543: 1, H0423: 1 and H0506: 1.	AR055: 10, AR039: 9,				119-139
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833	HPCRR53	874354	843	74 - 454	2248	Arg-112 to Ile-118, Tyr-121 to Ala-127.	AR104: 1, AR096: 1, AR089: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, AR053: 0, AR052: 0				
834	HLQEW26	874356	844	226 - 561	2249	Thr-29 to His-47.	AR052: 25, AR089: 20, AR033: 17, AR060: 16, AR055: 15, AR053: 15, AR104: 14, AR039: 9, AR061: 8, AR096: 8 L0662: 5, L0777: 5, L0805: 4, L0779: 4, L0755: 4, S0380: 3, L0750: 3, L0598: 2, L0770: 2, L0769: 2, L0637: 2, L0771: 2, L0774: 2, L0659: 2, L0663: 2, L0438: 2, H0521: 2, S0404: 2, L0439: 2, L0754: 2, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0574:				7-24, 80- 96

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835	HSLJR04	874369	845	1102 - 1446	2250			AR096: 2, AR055: 1, AR060: 1, AR089: 1, AR053: 0, AR033: 0, AR061: 0, AR104: 0, AR052: 0, AR039: 0 S0028: 3, H0204: 2, S0031: 2, H0381: 1, S0045: 1, L0105: 1, H0617: 1, S0144: 1, S0052: 1, S0152: 1 and S0390: 1.				75-109, 25-41
836	HCYBG26	874427	846	11 - 385	2251	Tyr-61 to Thr-67.		AR039: 82, AR061: 81, AR033: 75, AR104: 70, AR055: 70, AR096: 66, AR089: 60, AR060: 56,				96-120, 12-36, 69- 85, 42-58

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837	HNGEZ52	874434	847	100 - 1254	2252			AR055: 7, AR060: 3, AR053: 3, AR089: 3, AR052: 3, AR061: 2, AR033: 2, AR096: 2, AR039: 0, AR104: 0 S0049: 1, T0090: 1, S0052: 1 and L0779: 1.						
838	H2LAY37	874446	848	363 - 1172	2253	Asp-30 to Gly-38, Ser-71 to Arg-77, Leu-85 to Gly-91, Asp-127 to Gly-135, Glu-171 to Gly-176, Pro-182 to Glu-187.		AR052: 38, AR039: 15, AR060: 15, AR053: 15, AR033: 12, AR104: 10, AR089: 10, AR096: 9, AR055: 6, AR061: 6 H0638: 74, H0641: 68, L0747: 28, S0358: 26, H0521: 24, L0748: 23, S0360: 18, S0408: 18, L0754: 18, H0659: 15, L0757: 14, L0731: 13, H0250: 12, H0494: 12, S0026: 12, S0444: 11, S0440: 11, L0749: 11, S0328: 10, S0206: 9, L0750: 9, S0132: 8, H0574: 8, S0144: 8, L0740: 8, S0007: 7, S0414: 7, S0142: 7,					51-67, 214-230, 232-248	

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H0642: 1, H0643: 1, H0632: 1, T0040: 1, S0280: 1, H0599: 1, H0042: 1, H0120: 1, H0318: 1, H0581: 1, H0263: 1, H0121: 1, H0530: 1, H0045: 1, H0012: 1, H0350: 1, H0057: 1, H0015: 1, S0388: 1, S0051: 1, H0375: 1, H0061: 1, H0179: 1, S0022: 1, S0214: 1, L0483: 1, H0628: 1, H0617: 1, L0055: 1, H0165: 1, H0169: 1, H0674: 1, H0598: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, H0551: 1, H0116: 1, H0272: 1, H0413: 1, L0351: 1, L0475: 1, S0448: 1, S0464: 1, S0306: 1, S0466: 1, H0130: 1, H0647: 1, H0646: 1, H0652: 1, S0344: 1, S0002: 1, L0598: 1, H0529: 1, L0520: 1, L0761: 1, L0667: 1, L0772: 1, L0645: 1, L0773: 1, L0521: 1, L0626: 1, L0794: 1, L0649: 1, L0522: 1, L0774: 1, L0653: 1, L0379: 1, L0657: 1, L0559: 1, L0526: 1, L0782: 1, L0382: 1, L0519: 1,
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839	HCRND05	874528	849	88 - 534	2254	Ala-142 to Ser-149.	L0647: 1, S0052: 1, H0703: 1, H0689: 1, H0690: 1, H0435: 1, H0672: 1, S0378: 1, S0380: 1, S0152: 1, H0523: 1, H0555: 1, H0187: 1, H0631: 1, S0028: 1, S0032: 1, L0744: 1, S0260: 1, S0308: 1, S0434: 1, L0592: 1, L0608: 1, L0603: 1, H0668: 1, H0665: 1, H0136: 1, S0192: 1, S0196: 1, S0424: 1, S0462: 1, H0506: 1 and H0293: 1.				6-39, 87-110, 58-74, 1-17
840	HCRNP66	874529	850	115 -	2255		AR096: 9, AR052: 9, AR104: 7, AR053: 6, AR039: 6, AR060: 5, AR089: 5, AR055: 4, AR033: 4, AR061: 3, H0551: 4, L0665: 3, H0547: 3, S0356: 2, S0360: 2, L0662: 2, L0527: 2, L0666: 2, L0754: 2, H0333: 1, H0012: 1, H0688: 1, H0553: 1, H0477: 1, L0770: 1, L0769: 1, L0650: 1, L0606: 1, L0790: 1, H0520: 1, H0682: 1, L0747: 1, L0779: 1 and L0755: 1.				113-140,

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841	HNTMD17	874559	851	266 - 790	2256	Met-1 to Tyr-14, Val-91 to Pro-99, Asp-101 to Gln-112.		AR033: 8, AR096: 6, AR052: 5, AR039: 5, AR053: 4, AR089: 4, AR104: 4, AR060: 3, AR055: 2, AR061: 2 L0438: 4, L0746: 4, H0717: 2, H0013: 2, H0581: 2, H0656: 1, H0580: 1, H0415: 1, H0069: 1, H0590: 1, L0471: 1, S0628: 1, H0266: 1, S0003: 1, H0328: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, S0438: 1, H0647: 1, H0529: 1, L0766: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, L0752: 1, S0434: 1, S0192: 1 and H0542: 1.				155-171, 38-54
842	HMCZ52	874610	852	243 - 1187	2257	Pro-30 to Trp-38, Pro-100 to Lys-109, Tyr-129 to Ala-136, Val-144 to Lys-153, Pro-173 to Gly-178, Phe-193 to Asn-201,		AR055: 9, AR033: 8, AR052: 5, AR060: 5, AR096: 4, AR089: 4, AR061: 3, AR053: 3, AR104: 3, AR039: 2 L0779: 6, S0358: 4,				37-61, 12- 28, 70-86, 238-254

843	HOSOL09	874620	853	126 - 725	2258	Gly-223 to Gly-239, Thr-258 to Gln-263, Arg-286 to Ser-292, Cys-300 to Gln-306.	H0596: 3, S0002: 3, H0521: 3, S0344: 2, L0766: 2, L0651: 2, L0805: 2, L0776: 2, L0666: 2, S0380: 2, S0406: 2, L0756: 2, S0434: 2, S0444: 1, S0360: 1, H0675: 1, H0676: 1, H0318: 1, H0046: 1, H0050: 1, H0083: 1, H0688: 1, H0628: 1, H0413: 1, L0520: 1, L0638: 1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0794: 1, L0652: 1, L0657: 1, L0659: 1, S0374: 1, H0670: 1, L0750: 1, L0777: 1, L0731: 1 and H0543: 1.				50-84, 25- 43, 120- 136
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844	HLQHJ48	874643	854	32 - 751	2259	Pro-2 to Gly-11, Gln-14 to Pro-19, Ala-92 to Asn-101, Gly-132 to Gly-137, Leu-145 to Pro-160, Asp-183 to Gly-191.	1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.				223-240	
845	HTTUDU01	874708	855	117 - 989	2260	Ala-133 to Gly-140, Val-165 to Gly-173.	AR055: 11, AR060: 5, AR053: 5, AR061: 5, AR033: 4, AR089: 4, AR052: 4, AR039: 3, AR096: 2, AR104: 2 L0439: 6, L0777: 3, H0632: 2, L0756: 2, S0360: 1, H0050: 1, H0688: 1, H0412: 1, H0494: 1, H0520: 1, H0670: 1 and L0758: 1. AR052: 33, AR053: 21, AR096: 18, AR089: 15, AR060: 13, AR055: 12, AR104: 12, AR033: 11, AR039: 8, AR061: 7 L0803: 6, H0040: 3, H0038: 2, L0756: 2, L0485: 2, L0593: 2, T0002: 1, S0040: 1, H0664: 1, S0356: 1, S0010: 1, T0110: 1,					51-69, 207-223, 141-157, 16-32, 186-202, 80-96

846	HOSMQ26	874847	856	26 - 424	2261	Lys-8 to Thr-14, Glu-28 to Arg-34.	S0003: 1, T0006: 1, H0032: 1, H0598: 1, H0488: 1, H0412: 1, L0369: 1, L0638: 1, L0662: 1, L0626: 1, L0794: 1, L0804: 1, L0774: 1, L0791: 1, L0666: 1, H0520: 1, H0626: 1, L0779: 1, L0758: 1, L0759: 1 and S0026: 1. AR055: 9, AR060: 8, AR096: 6, AR052: 6, AR033: 6, AR053: 5, AR089: 4, AR061: 4, AR104: 4, AR039: 4 L0747: 4, L0777: 4, L0753: 4, L0588: 4, H0046: 3, L0766: 3, H0313: 2, L0374: 2, L0764: 2, L0773: 2, L0776: 2, H0659: 2, L0748: 2, L0752: 2, L0591: 2, H0542: 2, T0002: 1, S0040: 1, S0212: 1, H0663: 1, S0418: 1, S0376: 1, S0045: 1, H0351: 1, H0497: 1, H0263: 1, H0123: 1, S0003: 1, H0615: 1, H0068: 1, H0090: 1, H0264: 1, H0538: 1, S0002: 1, S0426: 1, H0529: 1, L0769: 1, L0372: 1, L0642: 1, L0662:	6p22	248611	103-130, 75-91	
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847	HE8FA47	874915	857	1011 - 235	2262	Ser-59 to Trp-77, Lys-143 to Asp-150, Tyr-254 to Lys-259.	1, L0803: 1, L0375: 1, L0655: 1, L0659: 1, L0789: 1, H0520: 1, H0547: 1, H0660: 1, S0404: 1, H0631: 1, S3014: 1, L0749: 1, L0750: 1, L0779: 1, L0757: 1, L0581: 1, L0362: 1, S0276: 1 and H0423: 1.					103-137, 80-105, 165-184, 221-241, 195-211
							AR033: 10, AR104: 9, AR096: 8, AR052: 8, AR060: 8, AR089: 7, AR053: 7, AR055: 6, AR039: 4, AR061: 3 L0779: 9, L0755: 6, L0766: 5, L0748: 5, L0776: 4, H0013: 3, L0747: 3, L0777: 3, L0758: 3, L0770: 2, L0771: 2, L0775: 2, L0752: 2, H0543: 2, L0005: 1, S0358: 1, S0376: 1, S0046: 1, H0331: 1, H0486: 1, L0105: 1, H0014: 1, H0068: 1, H0616: 1, L0769: 1, L0772: 1, L0663: 1, L0664: 1, L0438: 1, H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0740: 1, L0749: 1, L0731: 1, L0757: 1, L0759: 1, H0667: 1, H0423: 1, H0422: 1 and L0465: 1.					

848	HMTME42	874948	858	38 - 547	2263	Glu-4 to Ala-10, Glu-24 to Glu-30, Glu-34 to Lys-43, Gly-69 to Cys-78, Asn-127 to Glu-132, Arg-145 to Phe-150.	AR039: 1, AR053: 1, AR033: 1, AR096: 1, AR052: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0 H0031: 2, S0126: 2, L0748: 2, H0624: 1, H0341: 1, S0282: 1, S0046: 1, H0369: 1, H0431: 1, H0244: 1, T0082: 1, H0012: 1, H0266: 1, H0615: 1, H0039: 1, H0032: 1, H0090: 1, H0551: 1, S0002: 1, H0529: 1, L0794: 1, L0766: 1, L0791: 1, H0144: 1, H0520: 1, H0525: 1, H0436: 1, S0031: 1, L0592: 1, L0485: 1, H0665: 1 and H0543: 1.				76-93
849	HRADL60	874960	859	194 - 1183	2264	Met-22 to Arg-28.	AR060: 2, AR055: 2, AR033: 2, AR089: 2, AR096: 1, AR061: 1, AR052: 1, AR104: 0, AR039: 0, AR053: 0 L0777: 12, L0766: 9, L0803: 6, L0748: 5, L0752: 5, L0758: 5, L0759: 5, L0666: 4, L0794: 3, L0805: 3, L0743: 3, L0747: 3, S0222: 2, H0457: 2, S0003: 2, L0649: 2, L0804: 2,				130-146, 208-225, 1-17, 183- 199

850	HWLMB5 5	875096	860	231 - 947	2265	Ser-69 to Asp-76, Pro-126 to Gly-131, Asp-137 to Arg-144.	L0809: 2, L0663: 2, L0664: 2, H0539: 2, L0744: 2, L0740: 2, L0596: 2, L0362: 2, S0026: 2, H0624: 1, H0170: 1, H0717: 1, T0049: 1, H0402: 1, H0638: 1, S0420: 1, L0454: 1, S0356: 1, S0444: 1, S0360: 1, H0637: 1, H0393: 1, L0717: 1, H0486: 1, T0082: 1, L0163: 1, H0594: 1, H0266: 1, H0416: 1, H0328: 1, H0622: 1, T0006: 1, H0553: 1, H0674: 1, H0163: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0625: 1, H0538: 1, L0598: 1, L0770: 1, L0646: 1, L0764: 1, L0662: 1, L0375: 1, L0515: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, T0068: 1, H0520: 1, H0547: 1, H0684: 1, H0658: 1, H0518: 1, S0013: 1, S0146: 1, H0555: 1, L0779: 1, L0780: 1, L0757: 1 and S0462: 1.				89-105, 13-29
						AR039: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 1, AR096: 1, AR033: 1, AR055: 0,					

851	HUSGZ51	875230	861	9 - 1262	2266	Ile-43 to Arg-50, Phe-75 to Pro-83, Leu-109 to Val-116, Ile-122 to Thr-127, Pro-137 to Gly-149, Arg-184 to Gly-213, Lys-221 to Glu-228.	AR052: 0, AR053: 0 S0442: 6, L0777: 6, L0731: 5, L0775: 4, H0024: 3, H0586: 2, H0648: 2, H0521: 2, L0748: 2, H0638: 1, S0358: 1, S0376: 1, S0360: 1, H0587: 1, H0641: 1, H0646: 1, L0770: 1, L0643: 1, L0363: 1, L0803: 1, L0804: 1, L0783: 1, L0787: 1, L0666: 1, L0665: 1, H0593: 1, H0518: 1, S0406: 1 and L0779: 1.							249-265
							AR033: 13, AR053: 11, AR052: 10, AR089: 10, AR055: 7, AR060: 5, AR061: 5, AR096: 5, AR039: 4, AR104: 1 H0556: 10, L0748: 8, H0620: 7, L0747: 7, H0265: 5, L0637: 5, H0013: 4, H0551: 4, L0776: 4, L0663: 4, L0596: 4, H0622: 3, H0617: 3, L0772: 3, L0766: 3, S0126: 3, L0751: 3, L0752: 3, L0757: 3, S0031: 3, L0593: 3, H0657: 2, S0360: 2, S0222: 2, T0115: 2, H0009: 2, L0471: 2, H0594: 2, H0288: 2, H0039:							

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852	HWDA	8	875249	862	891 - 1205	2267			1, L0383: 1, L0665: 1, L0352: 1, H0593: 1, H0689: 1, H0682: 1, H0660: 1, S0328: 1, H0696: 1, S0044: 1, S0406: 1, S0037: 1, S3014: 1, S0206: 1, L0439: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0759: 1, L0588: 1, L0362: 1, L0361: 1, H0653: 1, H0136: 1, S0196: 1, H0543: 1 and S0424: 1.				
									AR052: 9, AR033: 8, AR055: 7, AR089: 7, AR096: 6, AR053: 6, AR060: 5, AR039: 5, AR104: 5, AR061: 4 L0769: 7, L0754: 7, L0777: 7, H0521: 5, L0809: 4, L0751: 4, H0556: 3, L0764: 3, L0771: 3, L0776: 3, H0555: 3, L0439: 3, H0624: 2, H0171: 2, S0442: 2, S0408: 2, H0318: 2, L0163: 2, H0673: 2, H0038: 2, S0142: 2, L0766: 2, H0539: 2, L0748: 2, L0750: 2, L0756: 2, L0731: 2, H0445: 2, H0265: 1, H0685: 1, H0717: 1, H0295: 1,	19q13	109560, 205900, 600652, 600757	55-71, 23- 39	

853	HFATS83	875269	863	126 -	2268		H0294: 1, H0657: 1, H0663: 1, S0358: 1, S0376: 1, H0580: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0601: 1, H0600: 1, H0592: 1, H0574: 1, H0559: 1, H0486: 1, T0040: 1, H0069: 1, S0010: 1, H0052: 1, H0085: 1, L0040: 1, H0327: 1, H0150: 1, H0620: 1, H0024: 1, H0266: 1, T0006: 1, H0644: 1, S0366: 1, H0135: 1, H0090: 1, H0059: 1, L0351: 1, H0494: 1, S0438: 1, H0647: 1, H0529: 1, L0763: 1, L5565: 1, L0372: 1, L0644: 1, L0773: 1, L0662: 1, L0768: 1, L0389: 1, L0805: 1, L0542: 1, L0783: 1, L0545: 1, L0792: 1, L0664: 1, S0374: 1, H0547: 1, H0658: 1, S0152: 1, H0696: 1, S0188: 1, S0406: 1, S0037: 1, S0027: 1, L0744: 1, L0745: 1, L0746: 1, L0749: 1, L0753: 1, L0758: 1, H0444: 1, L0603: 1, S0026: 1 and H0506: 1.			58-74
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854	HBION06	875295	864	470	2269	Asn-18 to Cys-29, Tyr-51 to Tyr-59, Asp-113 to Gly-120, Ala-125 to Gly-130, Ala-212 to Ala-224.	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR055: 1, AR061: 1, AR104: 0, AR039: 0 S0300: 1 and H0204: 1. AR052: 28, AR053: 25, AR089: 10, AR055: 8, AR096: 8, AR033: 6, AR060: 4, AR039: 3, AR061: 3, AR104: 1 L0761: 8, L0806: 5, H0593: 5, H0436: 5, H0581: 4, H0052: 4, L0766: 4, H0521: 4, L0745: 4, L0731: 4, L0759: 4, S0356: 3, L0600: 3, H0624: 2, H0713: 2, H0333: 2, H0618: 2, H0546: 2, H0545: 2, H0457: 2, H0617: 2, H0606: 2, H0100: 2, L0770: 2, L0764: 2, L0774: 2, L0775: 2, L0653: 2, L0659: 2, L0547: 2, L0809: 2, L0666: 2, H0672: 2, H0539: 2, H0522: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, H0543: 2, H0583: 1, H0341: 1, H0484: 1, H0669: 1, H0306: 1, H0458: 1, S0418: 1, S0420: 1, H0675:	148-164, 178-194, 61-77		
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855	HAPO057	875330	865	41 - 1363	2270	Thr-94 to Ala-102.	1, H0676: 1, S0045: 1, H0550: 1, H0392: 1, H0592: 1, H0586: 1, H0587: 1, H0485: 1, H0635: 1, H0575: 1, H0253: 1, H0318: 1, H0544: 1, H0009: 1, H0688: 1, H0634: 1, H0087: 1, H0551: 1, L0351: 1, S0438: 1, H0641: 1, H0649: 1, S0002: 1, H0695: 1, L0763: 1, L3904: 1, L0773: 1, L0767: 1, L0649: 1, L0803: 1, L0650: 1, L0375: 1, L0776: 1, L0657: 1, L0783: 1, L4501: 1, L0663: 1, L0565: 1, H0519: 1, S0126: 1, H0689: 1, H0683: 1, H0684: 1, H0659: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, H0134: 1, H0555: 1, L0609: 1, S0027: 1, S0028: 1, L0741: 1, L0743: 1, L0439: 1, L0777: 1, L0780: 1, S0434: 1, S0436: 1, H0216: 1, H0542: 1, H0423: 1 and H0506: 1.				125-156, 358-387, 215-247, 68-90,
						AR052: 7, AR096: 6, AR061: 5, AR089: 5, AR053: 5, AR055: 4, AR060: 4, AR033: 4,					

								AR039: 3, AR104: 3 L0766: 8, L0439: 8, L0758: 7, H0521: 6, L0770: 5, L0665: 5, L0754: 5, L0756: 5, L0752: 5, L0663: 4, L0749: 4, H0575: 3, S0126: 3, L0740: 3, L0751: 3, L0747: 3, L0757: 3, H0657: 2, L0415: 2, S0356: 2, H0590: 2, S0003: 2, S0214: 2, H0644: 2, H0059: 2, S0422: 2, L0769: 2, L0800: 2, L0771: 2, L0662: 2, L0649: 2, L0803: 2, L0657: 2, L0659: 2, L0666: 2, L0438: 2, H0555: 2, L0750: 2, L0731: 2, S0194: 2, H0556: 1, T0002: 1, H0716: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0408: 1, S0045: 1, S0476: 1, S0278: 1, H0632: 1, H0013: 1, H0156: 1, H0002: 1, H0036: 1, H0052: 1, L0738: 1, H0545: 1, H0046: 1, L0471: 1, H0020: 1, H0051: 1, H0622: 1, H0030: 1, H0617: 1, L0055: 1, H0708: 1, H0316: 1, H0412: 1,			185-204, 45-61, 284-301, 24-40, 256-272, 322-338, 105-121
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856	HCROG59	875405	866	198 - 581	2271	Met-1 to Leu-8.	H0641: 1, H0529: 1, L0763: 1, L0764: 1, L0794: 1, L0389: 1, L0650: 1, L0805: 1, L0809: 1, L0543: 1, L0664: 1, S0374: 1, H0547: 1, H0690: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, H0631: 1, S3014: 1, L0755: 1, L0759: 1, S0434: 1, H0665: 1, S0242: 1, S0276: 1 and H0423: 1.	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250	107-128
							AR060: 3, AR089: 2, AR096: 2, AR053: 2, AR061: 2, AR033: 2, AR055: 2, AR039: 1, AR052: 1, AR104: 1 L0803: 5, L0777: 5, H0549: 3, H0150: 3, L0774: 3, L0809: 3, L0731: 3, H0662: 2, H0251: 2, L0769: 2, L0764: 2, L0648: 2, L0805: 2, L0746: 2, L0750: 2, L0779: 2, H0484: 1, S0356: 1, L0717: 1, H0550: 1, S0280: 1, T0082: 1, H0123: 1, H0024: 1, H0328: 1, H0644: 1, H0068: 1, L0794: 1, L0659: 1, H0693: 1, H0547: 1, H0689: 1, H0658: 1, H0696: 1, S0146:			

857	HDTBL01	875452	867	86 - 421	2272	Arg-4 to Phe-9.	1, S0206: 1, L0740: 1, L0747: 1, L0749: 1, L0758: 1 and L0603: 1. AR052: 220, AR053: 179, AR096: 154, AR089: 80, AR039: 52, AR055: 50, AR061: 39, AR060: 28, AR033: 28, AR104: 20 H0486: 1, L0775: 1, H0631: 1, L0749: 1 and L0755: 1.				83-103, 51-67
858	HHFJY07	875510	868	82 - 552	2273	Glu-43 to Lys-51, Lys-94 to Ser-99.	AR033: 4, AR060: 2, AR089: 2, AR061: 1, AR096: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0, AR052: 0 L0777: 5, L0803: 4, H0539: 3, H0521: 3, L0439: 3, L0755: 3, L0731: 3, S0420: 2, H0619: 2, H0421: 2, S0049: 2, H0617: 2, L0640: 2, L0794: 2, L0658: 2, H0693: 2, S0126: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0588: 2, L0601: 2, H0294: 1, H0650: 1, H0484: 1, H0306: 1, S0356: 1, S0442: 1, S0358: 1, S0007: 1, L0717: 1,				125-153

859	HOFMV44	875558	869	212 - 1138	2274	Arg-88 to Trp-97, Ser-106 to Ser-115, Gly-130 to Tyr-137, Pro-146 to Trp-151, Val-187 to Ser-196, Ile-234 to Val-246, Pro-249 to Thr-255, Thr-280 to Ser-288.	H0592: 1, H0069: 1, H0618: 1, H0253: 1, S0010: 1, H0545: 1, H0150: 1, H0620: 1, H0488: 1, H0412: 1, H0494: 1, S0440: 1, L0770: 1, L0796: 1, L0637: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0766: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0788: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0665: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, H0518: 1, H0555: 1, L0743: 1, L0750: 1, L0779: 1, L0757: 1, L0758: 1, S0031: 1, S0434: 1 and H0542: 1.				205-224, 161-177, 61-77, 114-130, 21-37
						AR096: 3, AR052: 3, AR033: 2, AR089: 2, AR053: 2, AR055: 2, AR060: 1, AR061: 1, AR104: 1, AR039: 0 H0556: 2, H0305: 2, H0589: 2, S0356: 1, S0132: 1, H0415: 1, H0635: 1, S6028: 1, H0598: 1, H0591: 1, H0494: 1, S0002: 1, L0766: 1, L0803: 1, H0539: 1, L0740: 1 and L0777: 1.					

860	HSLJN60	875559	870	51 - 392	2275	Pro-107 to Asn-114.	AR055: 11, AR052: 6, AR061: 5, AR089: 5, AR060: 5, AR096: 4, AR033: 4, AR053: 4, AR039: 3, AR104: 1 H0031: 2, L0731: 2, L0599: 2, H0052: 1, H0263: 1, S0250: 1, H0606: 1, L0055: 1, H0169: 1, H0560: 1, H0509: 1, L0644: 1, L0766: 1, L0661: 1, L0526: 1, L0666: 1, S0380: 1, S0390: 1, L0779: 1, L0608: 1 and S0462: 1.				40-61, 64- 80
861	HWHGQ4 4	875575	871	240 - 662	2276	Pro-63 to Cys-69.	AR039: 2, AR033: 2, AR089: 1, AR061: 1, AR052: 1, AR060: 1, AR096: 0, AR055: 0, AR104: 0, AR053: 0 L0758: 6, L0743: 5, S0366: 4, L0770: 4, L0662: 4, H0253: 3, H0591: 3, L0749: 3, L0779: 3, L0731: 3, H0656: 2, S0360: 2, H0586: 2, H0270: 2, H0052: 2, H0009: 2, L0766: 2, L0776: 2, S0328: 2, L0747: 2, L0605: 2, L0485: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1,	17			45-63, 88- 104

862	HCQDA63	875590	872	758 - 1150	2277	Cys-107 to Pro-113.	H0255: 1, S0356: 1, S0354: 1, H0455: 1, H0333: 1, H0599: 1, H0706: 1, H0421: 1, S0049: 1, H0309: 1, H0597: 1, L0471: 1, H0012: 1, H0057: 1, H0286: 1, H0428: 1, H0039: 1, H0213: 1, H0708: 1, S0036: 1, H0090: 1, H0488: 1, T0042: 1, S0464: 1, H0641: 1, S0002: 1, L0639: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0641: 1, L0764: 1, L0381: 1, L0774: 1, L0651: 1, L0806: 1, L0655: 1, L0783: 1, L0663: 1, H0520: 1, H0689: 1, H0690: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0044: 1, S0404: 1, L0744: 1, L0751: 1, L0750: 1, L0753: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0196: 1, S0042: 1, S0458: 1 and H0677: 1.				66-86, 46- 62
						AR052: 36, AR053: 21, AR055: 11, AR033: 11, AR060: 10, AR039: 10, AR104: 10, AR096: 10, AR089: 7, AR061: 6					

863	HMUBG89	875597	873	366 - 37	2278				L0803: 4, L0439: 3, L0777: 3, H0596: 2, L0471: 2, L0794: 2, L0776: 2, L0438: 2, L0744: 2, L0748: 2, L0750: 2, L0592: 2, S0470: 1, S0430: 1, S0222: 1, H0590: 1, S0474: 1, H0439: 1, H0024: 1, H0673: 1, H0400: 1, H0494: 1, L0521: 1, L0805: 1, L0664: 1, H0670: 1, H0555: 1, S0027: 1 and L0596: 1.				41-58, 73- 89, 2-18, 94-110
864	HCFC58	875638	874	1392 - 1009	2279				AR039: 47, AR104: 21, AR096: 20, AR033: 19, AR053: 15, AR052: 14, AR089: 13, AR060: 11, AR055: 10, AR061: 8 L0805: 3, L0649: 2, L0803: 2, L0439: 2, L0740: 2, L0749: 2, L0750: 2, S0360: 1, H0266: 1, H0529: 1, L0794: 1, L0776: 1, H0672: 1, H0710: 1, H0696: 1 and L0748: 1.				89-109, 19-35, 70- 86
									AR033: 1, AR055: 1, AR089: 1, AR061: 1, AR060: 0, AR039: 0, AR096: 0, AR053: 0, AR052: 0, AR104: 0				

L0747: 14, L0769: 12, L0750: 11, L0789: 10, L0779: 10, L0805: 5, L0770: 4, L0766: 4, L0776: 4, S0356: 3, S0422: 3, L0375: 3, L0438: 3, L0759: 3, H0170: 2, H0656: 2, H0622: 2, L0771: 2, L0807: 2, S0328: 2, L0744: 2, L0748: 2, L0754: 2, L0749: 2, L0752: 2, L0753: 2, L0731: 2, S0436: 2, H0422: 2, H0352: 2, H0716: 1, H0341: 1, S0212: 1, H0483: 1, L0619: 1, S0360: 1, H0580: 1, S0007: 1, H0351: 1, S0222: 1, H0587: 1, H0333: 1, H0559: 1, T0114: 1, L0021: 1, S0474: 1, H0085: 1, H0012: 1, T0003: 1, H0024: 1, S0362: 1, S0051: 1, H0266: 1, H0417: 1, H0617: 1, H0032: 1, H0165: 1, H0634: 1, H0087: 1, H0412: 1, H0100: 1, L0800: 1, L0768: 1, L0794: 1, L0499: 1, L0803: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0526: 1, L0663: 1, L0665: 1, H0144:
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865	HWLMC4 9	875704	875	176 - 490	2280	Ser-45 to Gly-51.	1, T0068: 1, H0547: 1, H0670: 1, H0672: 1, H0522: 1, H0436: 1, L0439: 1, L0786: 1, L0780: 1, H0542: 1, H0543: 1 and S0424: 1.					83-105, 26-42
866	HFCDF47	875724	876	279 - 1133	2281	Asn-84 to Ser-89.	AR033: 10, AR089: 7, AR053: 6, AR061: 6, AR096: 6, AR055: 5, AR039: 5, AR052: 5, AR060: 4, AR104: 2 L0748: 2, S0376: 1, H0611: 1, H0036: 1, H0318: 1, H0052: 1 and L0766: 1.					59-77, 10- 27, 91- 107, 35-51
867	HCRNJ24	875794	877	71 - 721	2282	Tyr-16 to Arg-23.	AR052: 4, AR096: 4, AR053: 3, AR033: 3, AR089: 3, AR060: 2, AR055: 2, AR104: 1, AR061: 1, AR039: 1 L0766: 4, S0356: 3, H0083: 2, H0266: 2, H0031: 2, L0666: 2, L0731: 2, H0543: 2, H0395: 1, S0040: 1, S0444: 1, S0045: 1,					183-203, 104-124, 132-148

									H0587: 1, S0010: 1, H0581: 1, H0421: 1, H0687: 1, H0615: 1, H0622: 1, S0036: 1, S0386: 1, H0494: 1, S0210: 1, L0598: 1, L0794: 1, L0803: 1, L0775: 1, L0792: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, S0380: 1, S3014: 1, L0748: 1, L0756: 1, L0755: 1, L0757: 1, L0759: 1, H0343: 1, H0668: 1 and S0026: 1.				
868	HCRNT27	875817	878	50 - 556	2283	Ser-13 to Ile-22, Asn-54 to Lys-65, Ser-78 to Lys-93, Gly-146 to Pro-163.			AR039: 7, AR104: 5, AR053: 5, AR052: 5, AR089: 4, AR096: 4, AR060: 3, AR033: 3, AR061: 1, AR055: 0, S0356: 2, L0747: 2, L0758: 2, H0341: 1, H0125: 1, H0581: 1, H0052: 1, S0003: 1, L0373: 1, L0662: 1, L0658: 1, H0547: 1, H0519: 1, L0777: 1 and L0604: 1.				127-143, 33-49
869	HCQCC37	875825	879	144 - 497	2284	Glu-19 to Gln-26, Asn-28 to Asn-33, Met-65 to Asn-71, Val-75 to Thr-87.			AR055: 8, AR053: 4, AR089: 4, AR052: 4, AR061: 4, AR060: 4, AR096: 4, AR033: 3, AR104: 1, AR039: 0				86-102

870	HFXKZ44	875911	880	13 - 528	2285	Ser-67 to Tyr-93, Thr-109 to Arg-116.	H0586: 1, H0596: 1, S0250: 1, S0152: 1, H0521: 1 and L0758: 1. AR104: 15, AR061: 14, AR055: 13, AR033: 11, AR052: 11, AR089: 11, AR060: 10, AR096: 7, AR053: 7, AR039: 5 L0731: 5, L0758: 5, H0620: 3, L0766: 3, S0360: 2, S0002: 2, L0809: 2, L0791: 2, L0748: 2, L0439: 2, L0747: 2, L0601: 2, H0556: 1, S0282: 1, H0125: 1, S0408: 1, H0549: 1, H0550: 1, S0222: 1, H0438: 1, H0592: 1, T0114: 1, H0581: 1, H0596: 1, S6028: 1, H0622: 1, H0135: 1, H0087: 1, H0059: 1, H0529: 1, L0769: 1, L0761: 1, L0372: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0783: 1, L0543: 1, H0670: 1, H0555: 1, S3012: 1, L0757: 1, S0260: 1, L0596: 1 and L0361: 1.						1-24, 37- 60
871	HWAAD1 5	875938	881	79 - 507	2286		AR039: 17, AR055: 13, AR033: 10, AR060: 10,					66-97, 101-131,	

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872	HDABX38	875997	882	172 - 975	2287	Glu-27 to Ser-34, Arg-106 to Asn-122, Arg-154 to Lys-163, Arg-214 to Tyr-225.		AR039: 17, AR053: 16, AR033: 12, AR052: 12, AR104: 12, AR096: 11, AR060: 10, AR055: 10, AR089: 9, AR061: 4 S0354: 1, H0497: 1, H0263: 1, H0551: 1, L0475: 1, H0547: 1, H0521: 1 and H0631: 1.				129-151, 185-201
873	HETJZ14	876053	883	2790 - 1531	2288	Tyr-57 to Gly-66, Asp-91 to Lys-101, Val-131 to Gly-137, Asn-146 to His-152, Phe-200 to Arg-209, Leu-217 to Cys-222, Pro-326 to Asn-332, Lys-360 to Phe-375, Val-397 to Ile-405.		AR055: 6, AR061: 6, AR033: 5, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2 L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3,				303-322, 229-245, 154-170, 248-264

	H0457: 3, L0471: 3, S0422: 3, H0422: 3, H0686: 2, S0212: 2, L0717: 2, H0052: 2, H0046: 2, H0591: 2, H0551: 2, L0646: 2, L0662: 2, L0803: 2, S0126: 2, L0755: 2, L0588: 2, L0599: 2, L0595: 2, H0171: 1, H0222: 1, S0114: 1, H0583: 1, S0180: 1, H0662: 1, H0228: 1, H0638: 1, S0360: 1, H0580: 1, H0329: 1, S0046: 1, H0586: 1, H0587: 1, H0497: 1, H0250: 1, H0156: 1, H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0309: 1, H0545: 1, H0050: 1, H0023: 1, H0267: 1, H0271: 1, S0214: 1, H0328: 1, T0023: 1, H0031: 1, H0628: 1, L0455: 1, S0036: 1, H0163: 1, H0090: 1, H0634: 1, T0067: 1, H0268: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, H0560: 1, S0464: 1, L0065: 1, H0646: 1, H0529: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1,					
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874	HFCFB73	876111	884	217 - 1341	2289	Ala-17 to Asp-23, Pro-45 to Thr-53, Pro-55 to Glu-63, Trp-103 to Pro-117, Glu-198 to Tyr-209, Arg-257 to Thr-266, Pro-322 to Gly-328.	L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1.				233-256, 136-160, 166-192, 337-355, 302-318, 211-227, 270-286
						AR033: 45, AR104: 33, AR089: 30, AR096: 25, AR060: 21, AR055: 17, AR053: 15, AR052: 14, AR061: 9, AR039: 8 H0046: 14, L0517: 10, L0809: 7, L0731: 6, L0759: 6, L0748: 5, L0749: 5, S0360: 4, H0009: 4, H0616: 4, L0758: 4, H0556: 3, H0428: 3, H0494: 3, L0774: 3, H0684: 3, H0478: 3, L0777: 3, H0624: 2, H0265: 2, S0116: 2, H0484: 2, S0408: 2, S0278: 2, L0471: 2, H0024: 2, H0266: 2, H0622: 2, L0662: 2, L0497: 2, L0805: 2, L0493: 2,					

	L0659: 2, H0144: 2, H0547: 2, S0380: 2, H0521: 2, H0522: 2, S3014: 2, S0028: 2, L0751: 2, S0192: 2, H0170: 1, H0171: 1, H0717: 1, H0716: 1, S0114: 1, T0049: 1, S0134: 1, S0282: 1, S0035: 1, H0664: 1, S0358: 1, H0580: 1, H0722: 1, S0007: 1, H0208: 1, S0046: 1, H0369: 1, H0550: 1, H0370: 1, H0455: 1, H0586: 1, H0333: 1, H0485: 1, T0039: 1, H0069: 1, H0635: 1, H0042: 1, H0575: 1, T0082: 1, L0105: 1, H0251: 1, H0123: 1, H0051: 1, H0687: 1, H0290: 1, H0039: 1, H0031: 1, H0644: 1, H0032: 1, H0673: 1, H0038: 1, H0040: 1, H0551: 1, T0004: 1, H0100: 1, H0561: 1, S0002: 1, L0504: 1, L0506: 1, L0371: 1, L0500: 1, L0764: 1, L0767: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0651: 1, L0378: 1, L0664: 1, L0665: 1, H0519: 1, H0682: 1, H0435: 1, H0670: 1.	
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									H0648: 1, S0013: 1, H0696: 1, S0044: 1, S0190: 1, H0555: 1, H0631: 1, S3012: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0752: 1, S0434: 1, S0436: 1, L0588: 1, L0591: 1, L0592: 1, L0593: 1, L0361: 1, L0601: 1, H0665: 1 and S0456: 1.				
875	H2LAJ32	876142	885	208 - 561	2290				AR052: 5, AR055: 5, AR053: 4, AR060: 4, AR039: 3, AR033: 3, AR096: 3, AR061: 3, AR089: 3, AR104: 2 T0115: 1, H0046: 1, H0457: 1 and L0520: 1.	34-65			
876	HTPIQ89	876198	886	219 - 575	2291	Met-1 to Thr-12.			AR055: 12, AR089: 7, AR033: 7, AR060: 6, AR052: 6, AR061: 6, AR053: 4, AR104: 4, AR039: 4, AR096: 2 H0039: 1, H0622: 1, L0764: 1, L0659: 1, L0809: 1, S0406: 1 and H0506: 1.	76-95, 46-64			
877	HTDAI12	876209	887	298 - 870	2292	Gly-100 to Arg-106, Ser-111 to Cys-116.			AR089: 6, AR096: 6, AR033: 4, AR052: 4, AR053: 3, AR060: 3, AR039: 2, AR104: 2,	129-156			

878	HWLGV14	876226	888	169 - 978	2293	Arg-16 to Thr-21.	AR055: 2, AR061: 1 S0360: 3, S0354: 2, H0637: 2, S0298: 1, H0427: 1, H0477: 1 and H0445: 1. AR061: 45, AR060: 10, AR096: 4, AR039: 4, AR089: 3, AR033: 3, AR055: 2, AR052: 2, AR104: 1, AR053: 0 S0354: 1 and L0748: 1. AR039: 19, AR053: 16, AR055: 15, AR033: 14, AR089: 13, AR096: 11, AR060: 11, AR052: 11, AR104: 10, AR061: 7 L0794: 4, H0263: 1, H0327: 1, L0763: 1, L0666: 1, L0663: 1, L0438: 1, S0378: 1, L0747: 1 and L0759: 1. AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2, AR096: 1, AR053: 1, AR089: 1, AR052: 0, AR039: 0 L0748: 5, L0438: 3, S0360: 2, L0792: 2, L0439: 2, L0749: 2, L0759: 2, S0356: 1, H0333: 1, H0009:				198-229, 63-92, 126-151, 97-115
879	HCQBI31	876372	889	58 - 408	2294	Lys-11 to Glu-16.	AR039: 19, AR053: 16, AR055: 15, AR033: 14, AR089: 13, AR096: 11, AR060: 11, AR052: 11, AR104: 10, AR061: 7 L0794: 4, H0263: 1, H0327: 1, L0763: 1, L0666: 1, L0663: 1, L0438: 1, S0378: 1, L0747: 1 and L0759: 1. AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2, AR096: 1, AR053: 1, AR089: 1, AR052: 0, AR039: 0 L0748: 5, L0438: 3, S0360: 2, L0792: 2, L0439: 2, L0749: 2, L0759: 2, S0356: 1, H0333: 1, H0009:				71-87, 18- 34, 93-109
880	HE9RM22	876418	890	322 - 660	2295		AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2, AR096: 1, AR053: 1, AR089: 1, AR052: 0, AR039: 0 L0748: 5, L0438: 3, S0360: 2, L0792: 2, L0439: 2, L0749: 2, L0759: 2, S0356: 1, H0333: 1, H0009:				41-66, 13- 29

881	HMUBP81	876452	891	1078 - 200	2296	Met-1 to Arg-10, Val-22 to Ser-27, Asp-34 to Thr-39, Glu-115 to Arg-121, Leu-162 to Ser-169, Ile-266 to Ser-271.	1, H0100: 1, L0803: 1, L0651: 1, L0776: 1, L0512: 1, H0144: 1 and L0352: 1. AR039: 34, AR033: 17, AR053: 15, AR104: 13, AR096: 13, AR089: 13, AR052: 11, AR055: 10, AR060: 10, AR061: 6 L0777: 10, L0769: 4, L0764: 3, L0740: 3, S0360: 2, T0042: 2, L0766: 2, L0775: 2, L0748: 2, L0779: 2, L0603: 2, H0650: 1, H0341: 1, S0358: 1, S0376: 1, L0021: 1, H0263: 1, H0046: 1, H0412: 1, H0529: 1, L0662: 1, L0767: 1, L0774: 1, L0776: 1, L0665: 1, H0648: 1, S0330: 1, L0755: 1, L0759: 1 and H0667: 1.			225-252, 50-66	
882	HFIUG54	876475	892	681 - 980	2297		AR039: 11, AR104: 8, AR096: 6, AR053: 5, AR055: 5, AR052: 4, AR089: 4, AR033: 3, AR060: 3, AR061: 2 L0803: 8, L0756: 4, L0659: 3, L0731: 3, S0418: 2, H0156: 2, H0551: 2,			64-84, 18- 37	

883	HOB AE30	876533	893	388 - 699	2298	Lys-25 to Lys-31, His-36 to Gln-42, Gln-84 to Cys-90.	L0369: 2, L0662: 2, L0766: 2, L0517: 2, L0665: 2, H0670: 2, S0380: 2, H0521: 2, L0740: 2, S0356: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, H0329: 1, L0717: 1, H0497: 1, L0021: 1, H0004: 1, H0052: 1, H0044: 1, H0687: 1, T0006: 1, H0553: 1, H0674: 1, H0413: 1, H0633: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0772: 1, L0764: 1, L0773: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0653: 1, L0527: 1, L0518: 1, L0809: 1, L0438: 1, S0330: 1, H0696: 1, L0744: 1, L0748: 1, L0779: 1, L0777: 1, L0752: 1, L0757: 1, H0343: 1, S0434: 1, L0590: 1, S0011: 1, H0667: 1, S0194: 1, S0196: 1 and H0423: 1.	AR096: 2, AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0 L0754: 8, L0803: 6, L0748: 4, L0766: 3, S0376:					62-85, 1- 23
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884	HDABK73	876546	894	508 - 2508	2299	Glu-6 to Thr-20, Glu-63 to Met-74, Gln-79 to Thr-87, Ser-90 to Glu-105, Pro-113 to Gln-136, Phe-232 to Lys-249.	2, S0444: 2, S0360: 2, H0529: 2, L0663: 2, H0445: 2, L0603: 2, H0543: 2, H0657: 1, H0638: 1, S0420: 1, H0580: 1, H0393: 1, S0300: 1, L0717: 1, H0431: 1, H0643: 1, H0156: 1, H0581: 1, H0251: 1, H0014: 1, S0051: 1, S0003: 1, H0644: 1, H0090: 1, H0040: 1, S0472: 1, S0426: 1, L0598: 1, L0800: 1, L0641: 1, L0771: 1, L0521: 1, L0662: 1, L0768: 1, L0775: 1, L0805: 1, L0606: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0519: 1, S0122: 1, H0658: 1, H0672: 1, H0539: 1, S0378: 1, H0521: 1, L0439: 1, L0752: 1, L0759: 1 and H0423: 1.				144-161, 182-198
885	HEMHA04	876674	895	529 -	2300	Pro-4 to Ser-9.	AR053: 12, AR052: 9, AR096: 8, AR089: 5, AR039: 4, AR055: 4, AR033: 3, AR060: 3, AR061: 3, AR104: 2 H0497: 1, H0263: 1 and L0601: 1.	AR033: 9, AR052: 8,			81-97, 11-

886	HHEOX44	876676	896	151 - 2649	2301	Met-1 to Gln-8, Val-18 to Lys-36, Glu-42 to Thr-49, Pro-51 to Asn-58.		AR096: 8, AR089: 7, AR060: 7, AR104: 7, AR055: 6, AR039: 6, AR053: 5, AR061: 4 L0777: 9, L0748: 8, L0770: 5, L0789: 2, L0747: 2, L0755: 2, L0758: 2, H0171: 1, H0650: 1, S0376: 1, H0580: 1, S0046: 1, H0411: 1, H0549: 1, H0587: 1, H0486: 1, H0013: 1, H0318: 1, H0581: 1, L0471: 1, T0006: 1, H0031: 1, H0135: 1, H0040: 1, H0560: 1, H0561: 1, H0529: 1, L0769: 1, L0662: 1, L0803: 1, L0774: 1, H0670: 1, S0037: 1, S0027: 1, L0439: 1, L0740: 1, L0750: 1, L0759: 1, S0026: 1, S0276: 1 and H0543: 1.				727-748, 695-715, 222-240, 543-560, 676-692, 334-350, 521-537, 417-433, 655-671,
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							2, L0663: 2, L0759: 2, L0608: 2, H0543: 2, H0556: 1, S0218: 1, H0657: 1, H0341: 1, S0444: 1, S0468: 1, H0013: 1, H0635: 1, H0599: 1, H0098: 1, H0318: 1, H0235: 1, T0110: 1, H0563: 1, H0292: 1, H0606: 1, H0056: 1, H0623: 1, S0440: 1, S0002: 1, L0644: 1, L0764: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0766: 1, L0805: 1, L0528: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0547: 1, S0126: 1, H0659: 1, H0670: 1, H0672: 1, H0521: 1, L0740: 1, L0747: 1, L0752: 1, L0596: 1, L0485: 1, L0595: 1, H0136: 1, H0542: 1 and H0423: 1.					89-105, 256-272
887	HWBBS84	876726	897	242 - 814	2302	Tyr-14 to Gly-19, Lys-26 to Tyr-31, Asp-36 to Asp-41, Leu-68 to Glu-73, Pro-161 to Gly-168.	AR039: 17, AR104: 11, AR096: 11, AR089: 10, AR033: 8, AR053: 8, AR060: 7, AR052: 5, AR055: 5, AR061: 3 H0039: 3, H0580: 2, H0263: 2, S0430: 1, S0358: 1, H0250: 1, T0103: 1,				83-110, 43-59	

888	HWLIP86	876744	898	111 - 608	2303	Thr-91 to Ser-97, Thr-108 to Tyr-119, Gln-142 to Glu-157.	H0040: 1, H0494: 1, H0641: 1, L0662: 1, L0803: 1, S0428: 1, S0328: 1 and L0747: 1. AR039: 6, AR096: 3, AR060: 3, AR052: 3, AR053: 2, AR061: 2, AR104: 2, AR089: 1, AR055: 1, AR033: 1 L0775: 5, L0772: 3, S0358: 2, L0773: 2, S0356: 1, H0052: 1, H0596: 1, H0014: 1 and L0764: 1.				115-143, 72-91, 6- 29
889	HSBAZ37	876799	899	1192 - 671	2304	Arg-45 to Gly-55, Asp-143 to Arg-150.	AR033: 37, AR053: 35, AR039: 33, AR055: 33, AR089: 32, AR052: 32, AR104: 30, AR061: 24, AR060: 20, AR096: 20				84-114, 113-142, 150-172, 55-74, 26- 43, 77-93
890	HOSXA83	877015	900	802 - 395	2305		AR055: 8, AR060: 7, AR052: 7, AR096: 6, AR089: 6, AR053: 5, AR033: 5, AR039: 5, AR104: 5, AR061: 3 S0360: 3, L0758: 2, L0596: 2, L0485: 2, L0362: 2, S0011: 2, S0021: 2, H0656: 1, S0116: 1, S0418: 1, S0045: 1, S0476: 1,				111-133, 22-38

891	HDQH51	877101	901	584 - 1168	2306	Asp-3 to Cys-9, Gly-68 to Leu-74, Lys-109 to Asn-132.	H0393: 1, H0566: 1, H0050: 1, H0364: 1, H0040: 1, L0666: 1, H0547: 1, S0126: 1, H0539: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0591: 1, L0601: 1, S0196: 1 and H0423: 1. AR055: 1, AR089: 1, AR060: 1, AR061: 0, AR096: 0, AR052: 0, AR104: 0, AR039: 0, AR033: 0, AR053: 0 H0521: 3, H0124: 2, H0494: 2, S0040: 1, S0430: 1, H0650: 1, H0656: 1, S0356: 1, S0358: 1, H0645: 1, H0586: 1, H0587: 1, H0590: 1, L0045: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, H0641: 1, L0766: 1, H0701: 1, H0689: 1, H0672: 1, L0439: 1 and L0596: 1.				10-40, 75- 104, 48- 64, 135- 151, 167- 183
892	HWAAB46	877162	902	30 - 875	2307	Met-1 to Gly-8, Asn-38 to Leu-44, Arg-46 to Gly-51, Gln-120 to Pro-128, Met-168 to Pro-174.	AR096: 11, AR033: 11, AR104: 10, AR052: 9, AR053: 8, AR060: 8, AR089: 8, AR039: 6, AR055: 2, AR061: 2 L0766: 6, L0748: 5,				181-198, 142-158, 68-84, 206-222, 96-112

893	HOGDT09	877219	903	2422 - 854	2308	Lys-60 to Ala-79, Thr-88 to Lys-101, Leu-106 to Glu-116.	L0740: 5, L0759: 4, L0749: 3, H0486: 2, L0471: 2, H0040: 2, L0803: 2, L0775: 2, L0517: 2, L0602: 2, L0747: 2, L0731: 2, S0342: 1, H0341: 1, S0354: 1, H0635: 1, H0581: 1, L0738: 1, H0046: 1, T0003: 1, S0388: 1, S6028: 1, H0622: 1, T0067: 1, H0413: 1, H0494: 1, S0142: 1, H0529: 1, L0520: 1, L0371: 1, L0761: 1, L0646: 1, L0800: 1, L0521: 1, L0794: 1, L0774: 1, L0657: 1, L0809: 1, L0666: 1, L0663: 1, L0665: 1, H0547: 1, H0670: 1, H0666: 1, H0648: 1, H0521: 1, S3014: 1, L0754: 1, L0745: 1, L0594: 1, S0192: 1, S0276: 1 and H0506: 1.					41-57, 152-168
							AR052: 8, AR053: 5, AR096: 5, AR039: 3, AR060: 3, AR089: 3, AR033: 3, AR104: 3, AR055: 1, AR061: 1 L0766: 5, L0777: 5, L0803: 3, H0422: 3, H0624: 2, S0003: 2, S0214: 2,					

894	HTEGT79	877252	904	62 - 1078	2309	Met-1 to Lys-23, Val-75 to Ser-81, Ser-126 to Trp-132, Leu-165 to Ala-178.	L0775: 2, L0527: 2, L0659: 2, L0779: 2, L0755: 2, L0604: 2, H0170: 1, H0171: 1, H0656: 1, S0376: 1, S0046: 1, H0486: 1, H0263: 1, H0014: 1, H0687: 1, H0031: 1, H0090: 1, H0634: 1, H0494: 1, H0561: 1, H0641: 1, L0770: 1, L0761: 1, L0800: 1, L0643: 1, L0773: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0606: 1, L0537: 1, L0526: 1, S0006: 1, H0682: 1, H0435: 1, S0152: 1, H0521: 1, S0028: 1, L0743: 1, L0750: 1, L0758: 1, S0194: 1, H0542: 1 and H0506: 1.				41-60, 319-335, 296-312
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895	HOE/IS41	877267	905	10 - 591	2310	Gly-34 to Leu-41, Ala-54 to Lys-60.	L0768: 2, L0649: 2, L0804: 2, L0775: 2, L0657: 2, L0791: 2, L0664: 2, L0438: 2, H0520: 2, H0659: 2, S0152: 2, H0522: 2, L0747: 2, L0750: 2, L0756: 2, L0755: 2, L0757: 2, H0543: 2, S0040: 1, H0671: 1, H0661: 1, H0402: 1, H0638: 1, S0418: 1, S0360: 1, S0408: 1, H0333: 1, H0486: 1, H0156: 1, T0048: 1, H0597: 1, H0546: 1, H0014: 1, H0373: 1, H0375: 1, H0644: 1, H0316: 1, H0038: 1, L0060: 1, H0551: 1, H0512: 1, L0800: 1, L0643: 1, L0521: 1, L0651: 1, L0523: 1, L0654: 1, L0527: 1, L0526: 1, L0783: 1, L0528: 1, L0663: 1, H0519: 1, S0126: 1, H0365: 1, H0670: 1, S0378: 1, H0696: 1, S0032: 1, L0745: 1, L0779: 1, L0731: 1, L0759: 1, S0031: 1, L0597: 1, H0423: 1, S0384: 1 and H0506: 1.	AR096: 5, AR033: 3, AR039: 2, AR089: 1,			72-93, 128-144,
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					Phe-100 to Ala-111, Ser-145 to Asn-154.	AR053: 1, AR061: 1, AR055: 1, AR060: 1, AR104: 0, AR052: 0 L0751: 5, H0556: 4, L0741: 4, L0779: 3, L0777: 3, H0617: 2, L0789: 2, S0126: 2, H0265: 1, S0360: 1, S0045: 1, S0278: 1, H0545: 1, H0009: 1, H0620: 1, H0510: 1, S0214: 1, H0038: 1, H0412: 1, H0413: 1, H0059: 1, H0494: 1, H0641: 1, L0770: 1, L0772: 1, L0800: 1, L0764: 1, L0794: 1, L0804: 1, L0659: 1, L0518: 1, L0809: 1, H0436: 1 and L0759: 1.				155-171, 173-189
896	HBXDI92	877294	906	184 - 918	2311	AR033: 2, AR096: 2, AR039: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0, AR052: 0, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366:				221-241, 72-88

897	HHFMH12	877387	907	299 - 2161	2312	Gly-3 to Val-12, Gln-24 to Ile-30, Asp-44 to Ala-51, Lys-57 to Arg-62, Thr-114 to Cys-121, Arg-157 to Tyr-162, Ser-166 to Asp-175.	2, H0542: 2, S6024: 1, S0116: 1, H0305: 1, S0356: 1, H0580: 1, S0278: 1, H0437: 1, S6014: 1, H0013: 1, H0575: 1, S0010: 1, S0665: 1, S0346: 1, S0474: 1, H0581: 1, H0052: 1, L0471: 1, H0014: 1, H0051: 1, S0003: 1, H0644: 1, L0142: 1, S0364: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, H0494: 1, H0560: 1, S0150: 1, H0529: 1, L0662: 1, L0794: 1, L0804: 1, L0789: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, L0602: 1, H0518: 1, S0152: 1, L0612: 1, S0390: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0308: 1, L0589: 1, L0595: 1, H0653: 1, H0667: 1 and S0194: 1.				123-154, 77-96, 240-256
						AR055: 5, AR096: 3, AR060: 3, AR033: 2, AR061: 2, AR052: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 1 L0601: 9, L0769: 8, L0770: 6, L0659: 6, S0356:					

Asp-191 to Ser-198, Val-208 to Arg-214, Asp-225 to Lys-238, Ser-339 to Arg-344, Asn-481 to Glu-486.	5, H0622: 4, S0380: 4, L0749: 4, S0360: 3, T0010: 3, H0623: 3, S0038: 3, L0756: 3, L0731: 3, L0759: 3, S0442: 2, L0157: 2, H0100: 2, S0306: 2, L0645: 2, L0809: 2, L0666: 2, H0519: 2, S3014: 2, L0742: 2, L0748: 2, S0434: 2, H0352: 2, H0556: 1, H0295: 1, S0114: 1, S0134: 1, H0484: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0132: 1, H0619: 1, H0393: 1, L0717: 1, S0222: 1, S6014: 1, H0370: 1, H0586: 1, T0040: 1, H0635: 1, H0427: 1, H0036: 1, T0048: 1, H0052: 1, H0194: 1, H0263: 1, T0110: 1, H0231: 1, H0563: 1, H0050: 1, H0023: 1, H0014: 1, H0083: 1, H0266: 1, S0250: 1, L0483: 1, H0048: 1, H0321: 1, S0036: 1, H0040: 1, H0634: 1, H0551: 1, H0272: 1, H0433: 1, H0412: 1, H0413: 1, T0041: 1, H0494: 1, S0372: 1, S0144: 1, S0142: 1, S0210: 1, L0800:					
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898	HDPFP36	877396	908	388 - 804	2313			1, L0764: 1, L0662: 1, L0363: 1, L0794: 1, L4500: 1, L0803: 1, L0650: 1, L0805: 1, L0653: 1, L0654: 1, L0655: 1, L0807: 1, L0658: 1, L0783: 1, L0382: 1, L0789: 1, L0793: 1, L0663: 1, H0691: 1, H0693: 1, H0520: 1, H0435: 1, H0704: 1, S0044: 1, S3012: 1, S0027: 1, L0747: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0757: 1, L0758: 1, L0588: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1 and H0008: 1.				123-139, 105-121, 3-19
								AR052: 2, AR053: 2, AR055: 1, AR096: 1, AR089: 1, AR104: 1, AR033: 0, AR061: 0, AR060: 0, AR039: 0 L0740: 10, L0766: 9, L0777: 8, L0747: 7, L0803: 6, L0439: 6, L0794: 5, S0126: 5, H0265: 4, L0748: 4, L0749: 4, L0596: 4, H0580: 3, H0591: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, H0305: 2, T0039:				

899	HDPWZ46	877573	909	2684 -	2314	Asp-114 to Val-130,	2, L0471: 2, S0250: 2, H0622: 2, S0306: 2, L0763: 2, L0662: 2, L0809: 2, H0547: 2, H0521: 2, L0754: 2, L0756: 2, L0752: 2, L0590: 2, S0192: 2, H0543: 2, H0556: 1, H0686: 1, S0040: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, H0261: 1, H0013: 1, H0635: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0510: 1, H0267: 1, H0284: 1, S0022: 1, H0328: 1, H0615: 1, H0428: 1, H0031: 1, H0090: 1, H0616: 1, H0623: 1, L0564: 1, T0042: 1, H0494: 1, S0144: 1, S0210: 1, L0598: 1, L0369: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0804: 1, L0775: 1, L0806: 1, L0657: 1, L0513: 1, L0541: 1, L0787: 1, L0788: 1, L0663: 1, L0664: 1, H0144: 1, S3014: 1, L0744: 1, L0750: 1, L0779: 1 and L0731: 1.				337-363,
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				1431	Thr-182 to Lys-187, Lys-266 to Gly-271.	AR033: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 0, AR039: 0, AR052: 0, AR053: 0 L0805: 53, L0776: 53, L0766: 8, L0748: 8, L0769: 7, L0758: 6, L0655: 5, H0318: 4, H0083: 4, H0424: 4, L0764: 4, L0439: 4, L0740: 4, L0749: 4, H0543: 4, L0770: 3, L0761: 3, L0646: 3, L0806: 3, L0783: 3, L0809: 3, L0666: 3, L0756: 3, L0777: 3, L0752: 3, H0650: 2, H0635: 2, L0157: 2, H0620: 2, S0344: 2, S0426: 2, L0667: 2, L0772: 2, L0663: 2, L0664: 2, L0665: 2, L0751: 2, L0747: 2, L0750: 2, L0608: 2, H0422: 2, H0624: 1, H0185: 1, H0556: 1, T0002: 1, H0656: 1, L0760: 1, H0341: 1, S0358: 1, H0637: 1, H0580: 1, L0103: 1, H0645: 1, H0393: 1, H0610: 1, H0455: 1, H0333: 1, H0581: 1, H0457: 1, H0009: 1, H0178: 1, H0050: 1, H0051: 1, S0388: 1, H0267:			11-32, 301-317, 54-70
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900	HFPBS73	878090	910	171 - 983	2315	Ala-8 to Asn-15, Asp-142 to Gly-147, Thr-212 to Val-218.	1, H0290: 1, H0688: 1, H0622: 1, H0096: 1, H0030: 1, H0617: 1, H0673: 1, H0087: 1, H0100: 1, H0641: 1, S0422: 1, L0598: 1, L0762: 1, L0796: 1, L0800: 1, L0642: 1, L0643: 1, L0645: 1, L0773: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0787: 1, H0144: 1, L0438: 1, H0519: 1, H0659: 1, S0378: 1, H0521: 1, H0436: 1, S0028: 1, L0754: 1, L0779: 1, L0780: 1, L0755: 1, L0731: 1, L0757: 1, S0260: 1, H0216: 1, S0192: 1 and H0712: 1.				12-41, 41- 75, 226- 242, 64-80
901	HBBE08	878159	911	593 - 925	2316		AR055: 7, AR033: 6, AR061: 4, AR060: 4, AR104: 3, AR089: 3, AR096: 3, AR053: 3, AR052: 2, AR039: 1 H0254: 2, S0045: 2, S0028: 2, H0255: 1, S0046: 1, S0222: 1, L0477: 1, H0042: 1, H0617: 1, S0126: 1, S3012: 1 and S0031: 1.				42-61

902	HNFIB64	878172	912	623 - 1813	2317	Arg-40 to Thr-46, Phe-92 to Gly-101,	AR061: 1, AR039: 0, AR055: 0, AR104: 0, AR052: 0 L0756: 6, L0438: 5, H0052: 4, L0766: 4, L0439: 4, H0550: 3, L0774: 3, L0805: 3, H0580: 2, S0222: 2, H0486: 2, H0013: 2, H0457: 2, H0620: 2, L0662: 2, L0776: 2, H0689: 2, L0744: 2, L0740: 2, L0747: 2, H0149: 1, H0265: 1, H0657: 1, S0001: 1, S0356: 1, S0442: 1, S0360: 1, H0208: 1, H0351: 1, H0411: 1, H0369: 1, L0444: 1, H0249: 1, L0623: 1, H0156: 1, T0082: 1, S0010: 1, H0374: 1, H0009: 1, L0163: 1, H0201: 1, T0010: 1, H0674: 1, S0366: 1, S0036: 1, H0059: 1, S0038: 1, L0375: 1, L0517: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, H0651: 1, L0748: 1, L0745: 1, L0779: 1, L0752: 1, L0731: 1 and S0434: 1.				7-38, 367- 389, 255-
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903	HBIMN78	878206	913	1287 - 46	2318	Pro-122 to Arg-129, Thr-179 to Arg-193.	AR089: 23, AR033: 21, AR055: 20, AR052: 19, AR060: 18, AR061: 9 H0521: 6, H0457: 5, H0622: 5, L0439: 4, H0255: 3, H0253: 3, S0152: 3, H0657: 2, S0420: 2, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0036: 2, H0618: 2, H0617: 2, H0135: 2, H0040: 2, H0694: 2, S0406: 2, H0667: 2, H0583: 1, H0650: 1, H0341: 1, H0484: 1, H0638: 1, H0580: 1, S0007: 1, H0393: 1, H0592: 1, H0575: 1, H0052: 1, H0266: 1, H0271: 1, H0416: 1, S0022: 1, H0688: 1, H0039: 1, H0644: 1, L0142: 1, H0181: 1, S0366: 1, H0488: 1, H0487: 1, H0059: 1, S0038: 1, L0766: 1, L0775: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0666: 1, H0539: 1, H0436: 1, H0478: 1, S3012: 1, L0742: 1, L0758: 1, S0434: 1, H0543: 1 and S0460: 1.				271, 194- 210
						AR104: 3, AR096: 2, AR052: 2, AR033: 2.	159-181, 341-360				

Ser-83 to Gly-93, Asp-96 to Leu-106, Lys-203 to Gly-211, Ala-214 to Pro-219, Ser-246 to Lys-251, Arg-262 to Gly-270.	AR089: 2, AR053: 2, AR039: 2, AR055: 2, AR060: 1, AR061: 1 L0439: 10, L0758: 7, L0774: 5, S0404: 5, H0436: 5, L0731: 5, H0445: 5, L0769: 4, L0662: 4, L0666: 4, L0600: 4, H0716: 3, S0354: 3, H0581: 3, L0766: 3, L0776: 3, L0659: 3, S0406: 3, H0717: 2, H0294: 2, H0549: 2, H0586: 2, H0486: 2, H0327: 2, H0546: 2, H0457: 2, H0009: 2, L0471: 2, H0617: 2, H0551: 2, L0761: 2, L0800: 2, L0764: 2, L0768: 2, L0775: 2, L0809: 2, L0565: 2, S0380: 2, L0743: 2, L0748: 2, L0740: 2, L0779: 2, L0752: 2, L0759: 2, H0707: 2, L0592: 2, L0599: 2, H0341: 1, H0661: 1, H0663: 1, H0306: 1, S0418: 1, S0442: 1, S0358: 1, S0408: 1, S0045: 1, L0717: 1, H0602: 1, H0587: 1, H0427: 1, H0575: 1, H0318: 1, H0196: 1, H0052: 1, H0041: 1, H0354: 1, H0375: 1,						
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904	HHEKH05	878208	914	16 - 1407	2319	Lys-24 to Arg-30, Glu-76 to Arg-82, Ala-246 to Glu-256, Thr-261 to Gly-266, Thr-284 to Glu-290, Gly-323 to Tyr-329, Phe-427 to Lys-433, Asn-435 to Trp-453.	H0266: 1, L0194: 1, L0055: 1, H0708: 1, S0366: 1, S0036: 1, H0264: 1, H0509: 1, S0344: 1, H0538: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0637: 1, L5575: 1, L0642: 1, L0773: 1, L0648: 1, L0649: 1, L0533: 1, L0805: 1, L0530: 1, L0647: 1, L0790: 1, S0428: 1, S0053: 1, H0701: 1, H0723: 1, S0310: 1, H0547: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0627: 1, H0631: 1, S3012: 1, S0027: 1, L0741: 1, L0747: 1, L0750: 1, L0786: 1, L0777: 1, L0755: 1, H0665: 1, S0194: 1, H0423: 1 and H0506: 1.				1-23, 136- 154, 52- 68, 375- 391, 99- 115
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	H0619: 3, L0646: 3, L0764: 3, L0809: 3, L0666: 3, L0777: 3, S0212: 2, S0358: 2, H0331: 2, H0620: 2, T0010: 2, H0038: 2, L0804: 2, L0659: 2, L0383: 2, L0747: 2, L0755: 2, L0757: 2, L0588: 2, L0718: 2, H0265: 1, H0341: 1, H0255: 1, H0661: 1, H0663: 1, S0420: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, H0733: 1, H0351: 1, H0549: 1, H0600: 1, H0333: 1, H0632: 1, H0013: 1, H0618: 1, H0253: 1, H0318: 1, H0052: 1, H0571: 1, H0123: 1, H0012: 1, H0266: 1, H0615: 1, H0424: 1, H0628: 1, H0040: 1, H0264: 1, S0438: 1, S0440: 1, H0633: 1, L0763: 1, L0770: 1, L0771: 1, L0773: 1, L0766: 1, L0774: 1, L0653: 1, L0655: 1, L0519: 1, L0789: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0684: 1, H0659: 1, H0658: 1, S0330: 1, H0539: 1, S0152: 1, S0406: 1, L0752: 1,	
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905	HHAUW8 1	878215	915	167 - 1189	2320	Arg-68 to Thr-75, Arg-91 to Val-104, Pro-203 to Pro-221, Leu-229 to Arg-252, Pro-282 to Gly-295.	L0731: 1, L0608: 1, H0136: 1, H0542: 1, H0543: 1 and H0423: 1. AR033: 7, AR104: 6, AR053: 5, AR052: 5, AR039: 4, AR096: 4, AR055: 4, AR060: 3, AR089: 3, AR061: 3 L0769: 5, L0766: 5, L0439: 5, S0358: 4, L0794: 4, L0438: 4, L0777: 4, H0618: 3, H0494: 3, H0561: 3, L0809: 3, H0638: 2, S0418: 2, S0420: 2, H0370: 2, S0049: 2, H0052: 2, H0050: 2, H0012: 2, H0059: 2, S0440: 2, S0002: 2, L0761: 2, L0803: 2, L0805: 2, L0665: 2, H0547: 2, L0742: 2, L0744: 2, L0748: 2, L0779: 2, L0758: 2, L0759: 2, H0556: 1, H0656: 1, H0255: 1, H0458: 1, S0444: 1, H0208: 1, H0393: 1, H0351: 1, H0261: 1, S0220: 1, H0333: 1, H0632: 1, H0581: 1, H0309: 1, H0046: 1, H0150: 1, L0116: 1, H0620: 1, L0163: 1, H0083: 1, H0615: 1, T0023:	9q33-q34.1	103000, 114350, 120900, 131195, 146150, 185000, 189980, 223900, 253800, 253800, 268900, 600184, 602575, 602575	176-193, 142-158
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906	HAUBB12	878260	916	144 - 749	2321	Thr-3 to Gln-9.	1, H0424: 1, H0213: 1, H0617: 1, H0606: 1, H0673: 1, H0124: 1, H0135: 1, H0038: 1, L0351: 1, S0150: 1, S0344: 1, L0763: 1, L0796: 1, L0800: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, L0629: 1, L0658: 1, L0545: 1, H0682: 1, H0658: 1, H0627: 1, L0741: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, H0445: 1, L0589: 1, H0667: 1 and H0352: 1. AR053: 747, AR052: 436, AR096: 408, AR033: 219, AR104: 168, AR039: 132, AR089: 99, AR060: 82, AR055: 55, AR061: 30 H0052: 4, S0360: 3, L0662: 2, L0659: 2, H0672: 2, H0295: 1, H0294: 1, S0418: 1, S0442: 1, S0007: 1, S0476: 1, H0559: 1, S0049: 1, H0009: 1, H0563: 1, H0570: 1, H0566: 1, S0440: 1, L0520: 1, L0631: 1, L5575: 1, L0627: 1, L0643: 1, L0648: 1, L0803: 1, L0651: 1, L0805: 1,					43-59
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907	HFPHS77	878291	917	358 - 771	2322	Met-1 to Gln-6, Ile-32 to Cys-40, Trp-89 to Arg-97.	L5623: 1, L0791: 1, L0793: 1, L0664: 1, H0689: 1, H0435: 1, S0406: 1 and L0592: 1. AR033: 10, AR055: 9, AR096: 7, AR089: 7, AR060: 7, AR104: 6, AR052: 5, AR053: 5, AR061: 5, AR039: 2 L0779: 4, H0671: 2, S0356: 2, S0222: 2, H0052: 2, L0754: 2, L0756: 2, T0002: 1, S0358: 1, H0574: 1, T0003: 1, S0051: 1, L0598: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, L0789: 1, L0663: 1, H0144: 1, H0670: 1, H0651: 1, L0759: 1, L0362: 1 and S0026: 1.				39-63, 6- 28
908	HBGQN46	878306	918	216 - 683	2323	Ala-15 to Tyr-20.	AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR052: 0, AR061: 0, AR039: 0, AR053: 0, AR104: 0, AR055: 0 H0617: 2, L0794: 2, L0766: 2, L0806: 2, L0777: 2, H0587: 1, L0767: 1, L0375: 1, L0790: 1, L0792:				59-92

909	HTAFG29	878308	919	1333 - 1707	2324	Pro-100 to Lys-107.	1, L0743: 1, L0779: 1 and L0780: 1. AR061: 2, AR039: 1, AR060: 1, AR089: 0, AR104: 0, AR055: 0 L0804: 5, L0794: 4, S0046: 3, L0769: 3, S0222: 2, H0604: 2, H0553: 2, L0654: 2, L0777: 2, L0780: 2, L0731: 2, L0599: 2, H0265: 1, H0556: 1, T0049: 1, S0444: 1, S0360: 1, L0717: 1, T0039: 1, H0013: 1, H0069: 1, H0635: 1, H0036: 1, H0085: 1, H0271: 1, H0188: 1, H0424: 1, H0628: 1, H0674: 1, H0551: 1, H0494: 1, L0373: 1, L0641: 1, L0764: 1, L0768: 1, L0523: 1, L0806: 1, L0790: 1, L0665: 1, S0374: 1, H0684: 1, H0555: 1, S0390: 1, L0748: 1, L0751: 1, L0747: 1, S0276: 1 and H0422: 1.				70-87, 37- 53
910	HDPCT51	878310	920	315 - 1847	2325	Gly-83 to Ser-92, Tyr-100 to Phe-113, Asp-127 to Asp-138, Asp-194 to Gly-200,	AR039: 33, AR033: 18, AR104: 17, AR053: 15, AR096: 15, AR089: 14, AR055: 13, AR052: 11,				426-452, 226-251, 354-379, 315-334,

911	HMACZ08	878313	921	560 - 1174	2326	Gln-222 to Ser-227, Gln-476 to Gly-489, Gly-499 to Glu-505.	AR060: 10, AR061: 8 H0424: 7, H0521: 7, H0581: 3, H0033: 3, L0438: 3, H0522: 3, H0549: 2, H0271: 2, H0135: 2, S0040: 1, H0295: 1, S0001: 1, S0046: 1, H0250: 1, S0280: 1, H0575: 1, H0457: 1, H0009: 1, H0123: 1, S0340: 1, H0039: 1, H0405: 1, H0040: 1, H0647: 1, S0002: 1, H0547: 1, H0684: 1, S0152: 1, L0439: 1 and H0543: 1.				3-21, 343- 359, 285- 301, 393- 409	

912	HOHCA01	878348	922	169 - 1824	2327	Leu-2 to Leu-7, Leu-14 to Arg-46, Pro-73 to Arg-80, Ile-100 to Ile-105, Lys-113 to Val-126.	H0327: 1, H0530: 1, H0051: 1, H0266: 1, S0314: 1, S0022: 1, H0031: 1, H0553: 1, H0212: 1, H0038: 1, H0380: 1, H0264: 1, H0100: 1, H0509: 1, S0144: 1, L0763: 1, L0372: 1, L0374: 1, L0803: 1, L0775: 1, L0776: 1, S0216: 1, S0148: 1, H0670: 1, H0539: 1, H0518: 1, H0696: 1, S0146: 1, S0406: 1, S0028: 1, L0749: 1, L0779: 1, S0026: 1, S0192: 1 and S0242: 1.				45-74, 395-413, 174-190, 336-352, 275-291, 466-482
						AR055: 2, AR060: 1, AR089: 1, AR061: 0, AR096: 0, AR033: 0, AR104: 0, AR053: 0, AR039: 0 H0124: 3, S0280: 2, S0212: 1, H0484: 1, S0356: 1, S0354: 1, H0370: 1, H0618: 1, H0046: 1, H0051: 1, S0250: 1, H0553: 1, H0087: 1, H0551: 1, H0560: 1, H0625: 1, H0561: 1, L0369: 1, H0519: 1, H0593: 1, L0740: 1, S0196: 1 and S0424: 1.					

913	HTPEF72	878349	923	1399 - 1815	2328	Pro-4 to Pro-11, Pro-37 to Pro-50.	AR089: 17, AR053: 14, AR055: 14, AR052: 14, AR096: 12, AR104: 9, AR033: 8, AR060: 7, AR061: 6, AR039: 5 L0805: 11, L0777: 5, L0776: 4, L0438: 4, H0156: 2, H0318: 2, H0424: 2, S0464: 2, L0659: 2, S0434: 2, S0116: 1, H0661: 1, H0664: 1, S0442: 1, S0360: 1, H0733: 1, S0045: 1, S0046: 1, H0393: 1, H0587: 1, H0042: 1, H0618: 1, H0204: 1, H0565: 1, H0039: 1, H0165: 1, H0090: 1, H0038: 1, T0067: 1, H0647: 1, L0520: 1, L0646: 1, L0662: 1, L0651: 1, L0806: 1, L0658: 1, L5622: 1, L0787: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0658: 1, H0660: 1, S0380: 1, L0439: 1, L0747: 1, L0749: 1, L0753: 1, S0260: 1, S0436: 1 and L0584: 1.			74-91, 106-122
914	HDQFU07	878365	924	257 - 1156	2329	Lys-29 to Val-34, Cys-94 to Asp-99, Ser-102 to Val-107.	AR039: 25, AR096: 7, AR060: 5, AR033: 5, AR053: 4, AR052: 3.		1-27, 166- 183, 256- 272, 113-	

Gln-133 to Lys-139.	AR089: 3, AR061: 2, AR104: 2, AR055: 1, S0422: 21, S0408: 9, L0659: 9, S0438: 8, S0354: 6, L0754: 6, S0126: 5, H0543: 5, S0358: 4, S0444: 4, S0406: 4, H0436: 4, L0740: 4, L0777: 4, S0360: 3, H0144: 3, S0374: 3, L0750: 3, L0599: 3, H0170: 2, H0717: 2, S0410: 2, H0587: 2, H0574: 2, H0486: 2, H0575: 2, H0036: 2, S0003: 2, H0622: 2, L0475: 2, H0509: 2, L0667: 2, L0771: 2, L0662: 2, L0766: 2, L0804: 2, L0790: 2, H0710: 2, L0748: 2, L0745: 2, L0749: 2, L0731: 2, S0026: 2, H0422: 2, H0171: 1, H0686: 1, S0040: 1, H0716: 1, L0785: 1, S0212: 1, S0442: 1, H0393: 1, L0717: 1, H0441: 1, H0497: 1, H0427: 1, H0590: 1, S0010: 1, S0346: 1, S0474: 1, H0581: 1, H0050: 1, H0239: 1, H0510: 1, H0266: 1, H0553: 1, H0169: 1, H0264: 1, H0494: 1, S0450:	129
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915	HETBV52	878370	925	25 - 450	2330	Gly-11 to Asp-17, Gly-23 to Asp-41, Met-108 to Gln-116.	1, S0440: 1, H0654: 1, H0652: 1, S0344: 1, H0529: 1, H0026: 1, L0371: 1, L0372: 1, L0764: 1, L0521: 1, L0768: 1, L0649: 1, L0652: 1, L0653: 1, L0809: 1, L0367: 1, L0663: 1, L0665: 1, S0428: 1, H0699: 1, H0547: 1, H0670: 1, H0660: 1, S0330: 1, S0378: 1, H0518: 1, H0521: 1, H0522: 1, S0028: 1, L0744: 1, L0439: 1, L0751: 1, S0031: 1, S0260: 1, L0581: 1, L0362: 1, H0136: 1, H0506: 1 and H0721: 1.	16q24.1	256850	82-102
						AR052: 9, AR033: 8, AR053: 8, AR055: 7, AR060: 6, AR104: 5, AR089: 5, AR096: 5, AR061: 4, AR039: 4 L0509: 18, L0500: 9, L0499: 6, L0493: 6, L0514: 6, L0777: 6, S0358: 4, L0438: 4, H0657: 3, L0794: 3, L0776: 3, L0439: 3, L0747: 3, L0758: 3, H0542: 3, H0716: 2, S0418: 2, L0021: 2, H0551: 2, L0435: 2, S0440: 2, L0763: 2,				

L0662: 2, L0805: 2, L0508: 2, L0512: 2, L0513: 2, H0547: 2, S0028: 2, L0731: 2, L0605: 2, H0624: 1, H0717: 1, S0114: 1, H0650: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0360: 1, S0410: 1, H0339: 1, S0222: 1, H0592: 1, H0486: 1, T0040: 1, H0156: 1, S0049: 1, H0597: 1, H0545: 1, H0046: 1, S0051: 1, H0416: 1, S0336: 1, H0428: 1, H0135: 1, H0040: 1, H0087: 1, H0413: 1, T0042: 1, H0494: 1, S0472: 1, S0210: 1, L0369: 1, L0507: 1, L0770: 1, L0638: 1, L0646: 1, L0643: 1, L0764: 1, L0521: 1, L0767: 1, L0768: 1, L0766: 1, L0498: 1, L0497: 1, L0774: 1, L0657: 1, L0659: 1, L0783: 1, L0787: 1, L0793: 1, S0126: 1, H0670: 1, H0660: 1, S0330: 1, S0152: 1, S0406: 1, H0187: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0780: 1, L0759: 1, H0445: 1, H0423: 1.
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916	HPHAB61	878406	926	35 - 853	2331	Arg-140 to Arg-145.	H0422: 1 and S0424: 1. AR055: 10, AR033: 8, AR060: 7, AR089: 5, AR052: 4, AR061: 4, AR104: 4, AR096: 4, AR053: 3, AR039: 2 L0439: 5, L0740: 4, L0777: 4, L0755: 4, L0794: 2, L0803: 2, L0438: 2, L0602: 2, L0752: 2, L0599: 2, H0583: 1, S0360: 1, L0471: 1, H0510: 1, H0032: 1, H0488: 1, H0413: 1, L0662: 1, L0804: 1, L0775: 1, L0805: 1, L0655: 1, L0809: 1, L0519: 1, S0148: 1, H0547: 1, L0747: 1, L0686: 1 and H0665: 1.			153-173, 248-270, 190-209, 100-121, 61-78, 211-228, 1-17
917	HTJNI73	878407	927	59 - 1090	2332	Ile-37 to Ile-42, Asn-48 to Met-53, Cys-252 to Gly-258, Val-288 to Glu-293.	AR096: 1, AR033: 1, AR053: 1, AR089: 1, AR055: 0, AR060: 0, AR061: 0, AR039: 0, AR052: 0, AR104: 0 L0740: 19, L0748: 14, S0358: 6, L0754: 6, L0759: 5, S0354: 3, H0046: 3, S0344: 3, L0771: 3, L0666: 3, L0747: 3, H0393: 2, L0637: 2, L0775: 2, L0651:			1-17, 323- 341, 130- 146

918	HFCAI19	878432	928	564 - 109	2333	Asp-2 to His-10, Pro-136 to Glu-150.	2, L0438: 2, L0439: 2, L0756: 2, L0755: 2, H0170: 1, L0427: 1, S0356: 1, S0360: 1, S0408: 1, H0389: 1, H0549: 1, S0222: 1, H0643: 1, H0331: 1, H0574: 1, H0013: 1, H0156: 1, T0082: 1, S0474: 1, H0194: 1, L0738: 1, H0545: 1, H0150: 1, H0199: 1, H0014: 1, H0355: 1, S6028: 1, H0039: 1, L0455: 1, H0124: 1, H0316: 1, H0488: 1, H0059: 1, S0438: 1, S0144: 1, L0770: 1, L0769: 1, L0764: 1, L0662: 1, L0774: 1, L0805: 1, L0517: 1, L0783: 1, L0664: 1, H0144: 1, H0684: 1, H0672: 1, S0152: 1, H0521: 1, S0404: 1, H0555: 1, L0749: 1, L0786: 1, L0758: 1, H0445: 1, H0707: 1, L0599: 1, H0665: 1 and S0192: 1.				43-70, 76- 107, 103- 128, 22-38
						AR053: 17, AR055: 14, AR096: 10, AR033: 9, AR060: 8, AR039: 8, AR052: 6, AR089: 6, AR104: 6, AR061: 5 L0747: 5, L0750: 5,					

919	HEOMO40	878455	929	151 - 981	2334	Pro-34 to Pro-40, Pro-160 to Gln-167, Arg-185 to Gly-191, Glu-206 to His-211, Gln-231 to Thr-239.	L0748: 4, L0777: 4, S0344: 3, S0003: 2, L0769: 2, L0768: 2, L0775: 2, L0776: 2, H0659: 2, S0406: 2, L0751: 2, L0758: 2, H0159: 1, H0686: 1, H0294: 1, S0114: 1, H0636: 1, H0489: 1, S0007: 1, S0045: 1, H0619: 1, H0431: 1, L0251: 1, T0039: 1, T0114: 1, H0263: 1, H0327: 1, H0009: 1, H0012: 1, H0083: 1, H0039: 1, H0598: 1, H0038: 1, S0422: 1, L0770: 1, L0764: 1, L0766: 1, L0805: 1, L0512: 1, L0783: 1, L0382: 1, S0052: 1, S0428: 1, S0126: 1, H0648: 1, H0555: 1, L0749: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, L0759: 1, H0445: 1, H0667: 1 and H0543: 1. AR033: 3, AR061: 3, AR060: 3, AR096: 2, AR089: 2, AR055: 1, AR052: 1, AR104: 0 H0457: 10, H0617: 6, H0181: 5, L0748: 5, L0783: 3, L0809: 3, L0777: 3, H0484: 2, H0486: 2, H0087:					127-143, 167-183
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920	HBGQR89	878462	930	95 - 592	2335	Ser-21 to Gly-27.	2, H0494: 2, L0648: 2, H0521: 2, L0751: 2, L0755: 2, H0265: 1, H0556: 1, H0717: 1, H0657: 1, H0306: 1, H0402: 1, S0408: 1, H0580: 1, H0619: 1, H0549: 1, H0559: 1, H0097: 1, H0390: 1, S0474: 1, H0545: 1, H0355: 1, H0428: 1, H0039: 1, H0033: 1, H0213: 1, H0124: 1, S0366: 1, H0163: 1, H0509: 1, L0763: 1, L0770: 1, L0772: 1, L0774: 1, L0775: 1, L0776: 1, L0438: 1, H0684: 1, S0328: 1, H0539: 1, H0522: 1, L0747: 1, L0731: 1, L0757: 1, H0668: 1 and H0543: 1.					105-144, 27-50, 84- 114, 46- 62, 146- 162
921	HSLHS40	878483	931	121 - 534	2336	Val-131 to Asn-136.	AR104: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR039: 0, AR033: 0, AR053: 0, AR052: 0, AR096: 0 H0098: 1, H0617: 1, L0598: 1, L0367: 1 and S0260: 1. AR052: 10, AR033: 9, AR053: 7, AR096: 7,					31-52, 9- 32, 63-95,

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922	HDPFT14	878510	932	84 - 554	2337	Gly-11 to Glu-16, Cys-52 to His-59, Val-67 to Gln-72.	AR039: 3, AR096: 3, AR052: 3, AR053: 3, AR104: 2, AR060: 2, AR089: 2, AR055: 2, AR033: 2, AR061: 1 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1.				107-135, 73-94
923	HNHFY67	878569	933	660 - 178	2338	Arg-58 to Glu-64, Glu-72 to Lys-77, Glu-149 to Met-156.	AR053: 1, AR055: 1, AR089: 1, AR104: 1, AR033: 1, AR096: 1, AR061: 1, AR060: 0,				113-133, 19-35

924	HWLLR80	878628	934	52 - 1098	2339	Glu-27 to Gly-33, Pro-87 to Gly-94, Gly-110 to Leu-115, Asn-129 to Asp-134, Asn-148 to Glu-153, Ala-209 to Asp-215, Ser-241 to Ser-251.			AR052: 0 S0001: 7, S0028: 6, S0278: 2, H0575: 2, S0050: 2, H0271: 2, S0053: 2, S0031: 2, S0260: 2, L0593: 2, H0381: 1, H0419: 1, S0180: 1, S0282: 1, S0045: 1, L0476: 1, H0416: 1, H0313: 1, H0068: 1, S0036: 1, S0052: 1, S0428: 1, S0216: 1, S0146: 1, S0390: 1, L0592: 1 and L0603: 1.				283-306, 36-52
925	HLYAG35	878700	935	71 - 787	2340	Ala-24 to Asp-31.			AR039: 15, AR096: 8, AR060: 7, AR053: 6, AR089: 6, AR033: 6, AR052: 4, AR055: 3, AR104: 3, AR061: 2 H0046: 1 and H0445: 1.				92-121, 188-206
926	HDPLU91	878742	936	106 - 930	2341	Pro-18 to Val-23, Pro-50 to Ser-60, Gln-97 to Gly-103.			AR089: 13, AR053: 12, AR104: 9, AR052: 9, AR096: 7, AR033: 7,				30-52, 62- 80, 206- 222, 228-

									AR055: 6, AR039: 6, AR060: 5, AR061: 4 L0526: 6, L0439: 6, L0666: 4, L0758: 4, L0638: 3, L0655: 3, H0672: 3, L0740: 3, L0754: 3, H0657: 2, H0638: 2, S0418: 2, L0005: 2, S0376: 2, H0083: 2, L0770: 2, L0769: 2, L0761: 2, L0657: 2, L0659: 2, L0783: 2, L0519: 2, L0663: 2, L0664: 2, L0438: 2, L0581: 2, L0608: 2, H0423: 2, H0422: 2, S6024: 1, H0650: 1, H0664: 1, L0481: 1, S0356: 1, H0611: 1, S0010: 1, H0581: 1, H0251: 1, H0046: 1, H0050: 1, S0048: 1, H0266: 1, H0188: 1, L0483: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, L0564: 1, H0022: 1, H0509: 1, H0130: 1, S0422: 1, L0640: 1, L0771: 1, L0662: 1, L0768: 1, L0766: 1, L0375: 1, L0776: 1, L0809: 1, L0528: 1, L0792: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, S0380: 1, H0521: 1, H0696:	244
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927	HTFNS65	878748	937	190 - 750	2342	Thr-15 to His-21, Gly-30 to Lys-39, Arg-113 to Met-118, Arg-178 to Ala-187.	1, S0392: 1, L0742: 1, L0749: 1, L0756: 1, L0777: 1, L0731: 1, L0757: 1, L0759: 1, L0588: 1, L0589: 1, L0590: 1, L0592: 1, L0595: 1 and H0543: 1.					133-158
							AR053: 1, AR033: 1, AR089: 1, AR104: 1, AR060: 0, AR039: 0, AR061: 0, AR055: 0, AR052: 0, AR096: 0 L0777: 8, H0159: 3, S0408: 3, H0619: 3, L0770: 3, L0766: 3, L0783: 3, H0657: 2, H0617: 2, L0754: 2, L0747: 2, L0755: 2, L0731: 2, L0758: 2, H0265: 1, H0685: 1, S0134: 1, S0212: 1, H0663: 1, H0306: 1, H0402: 1, H0638: 1, S0444: 1, H0580: 1, S0046: 1, L0394: 1, H0431: 1, S0280: 1, H0052: 1, H0046: 1, H0081: 1, H0012: 1, S0036: 1, H0038: 1, H0412: 1, H0695: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0375: 1, L0379: 1, L0438: 1, H0648: 1, S0028: 1,					

928	HDABG90	878755	938	43 - 1284	2343	Tyr-4 to Gln-9, Asp-49 to Lys-54.	L0748: 1, L0751: 1, L0779: 1, L0752: 1, L0592: 1 and S0424: 1. AR096: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0 H0616: 2, H0497: 1 and H0618: 1.			226-264, 106-132, 139-171, 313-343, 178-201, 286-302, 217-234
929	HDPQO40	878790	939	106 - 726	2344	Pro-28 to Arg-35, Ser-51 to Pro-56, Pro-201 to Ser-207.	AR053: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR033: 2, AR060: 2, AR061: 1, AR104: 1, AR039: 0 H0486: 3, L0766: 3, L0777: 3, S0002: 2, S0426: 2, L0743: 2, L0779: 2, L0759: 2, S0474: 1, H0673: 1, H0674: 1, H0477: 1, L0805: 1, L0659: 1, L0790: 1, H0522: 1, H0478: 1, H0445: 1 and H0543: 1.			157-173, 88-104, 13-29
930	HKAHL37	878823	940	12 - 698	2345	Gln-12 to Phe-25, Ala-82 to His-93, His-212 to Ala-217.	AR033: 5, AR061: 4, AR089: 3, AR052: 3, AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR104: 1, AR039: 0 L0758: 12, H0617: 9,			21-46, 185-205, 50-74, 125-142, 106-122

L0747: 8, H0618: 5, H0253: 4, S0049: 4, H0494: 4, L0742: 4, L0751: 4, L0745: 4, H0305: 3, H0580: 3, H0052: 3, L0157: 3, L0769: 3, L0768: 3, L0766: 3, L0774: 3, L0783: 3, H0144: 3, S0436: 3, H0341: 2, S0360: 2, H0550: 2, H0546: 2, H0424: 2, L0763: 2, L0793: 2, L0748: 2, L0439: 2, L0740: 2, L0752: 2, L0755: 2, L0757: 2, L0759: 2, L0581: 2, S0452: 2, H0556: 1, S0114: 1, H0483: 1, H0661: 1, S0358: 1, S0132: 1, S0476: 1, H0261: 1, S6016: 1, S0222: 1, H0592: 1, H0586: 1, H0559: 1, H0486: 1, T0060: 1, S0280: 1, H0575: 1, H0706: 1, L0024: 1, H0150: 1, H0620: 1, H0024: 1, T0010: 1, S6028: 1, H0179: 1, H0252: 1, H0417: 1, H0674: 1, H0708: 1, H0038: 1, H0059: 1, T0042: 1, H0509: 1, H0641: 1, S0144: 1, L0770: 1, L0637: 1, L0761: 1, L0363: 1, L0794: 1.
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931	HBXAX11	878833	941	79 - 1239	2346	Met-1 to Tyr-11, Ser-190 to Thr-195, Pro-223 to Ser-229.	L0775: 1, L0807: 1, L0383: 1, L0528: 1, L0788: 1, H0520: 1, H0593: 1, H0684: 1, S0380: 1, H0521: 1, H0522: 1, H0696: 1, S0406: 1, H0555: 1, H0436: 1, L0754: 1, L0750: 1, L0777: 1, L0588: 1, H0543: 1, L0698: 1 and S0424: 1. AR033: 4, AR096: 3, AR061: 2, AR052: 2, AR053: 2, AR089: 1, AR060: 1, AR055: 1, AR104: 1, AR039: 0 L0809: 7, L0769: 4, L0761: 4, L0751: 4, L5565: 2, L0764: 2, L0766: 2, L0665: 2, L0747: 2, L0605: 2, H0657: 1, H0188: 1, S0038: 1, H0625: 1, L0646: 1, L0643: 1, L0645: 1, L0648: 1, L0768: 1, L0794: 1, L0649: 1, L0651: 1, L0655: 1, L0659: 1, L0382: 1, L0647: 1, L0666: 1, H0547: 1, H0519: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, L0758: 1 and L0587: 1.					125-143, 145-161, 70-86
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932	HMVBC71	878904	942	175 - 744	2347	Pro-45 to Thr-52, Pro-57 to Gly-69, Pro-76 to Asn-86, Glu-92 to Gly-98, Asn-114 to Thr-121, Arg-147 to Arg-155, Pro-170 to Thr-181.	AR033: 6, AR104: 4, AR096: 4, AR089: 3, AR053: 2, AR060: 2, AR055: 2, AR052: 2, AR039: 2, AR061: 1 S0330: 3, S0046: 2, H0494: 2, L0065: 2, L0666: 2, H0670: 2, L0439: 2, H0624: 1, H0686: 1, H0295: 1, S0212: 1, S0442: 1, H0735: 1, H0549: 1, H0392: 1, H0559: 1, H0052: 1, H0597: 1, H0327: 1, H0009: 1, H0024: 1, S0050: 1, S0051: 1, H0428: 1, S0150: 1, H0641: 1, L0637: 1, L0662: 1, L0794: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0659: 1, L0526: 1, L0663: 1, L0665: 1, H0593: 1, H0690: 1, S0328: 1, H0696: 1, H0555: 1, S0037: 1, S0028: 1, L0756: 1, L0759: 1, S0434: 1 and S0276: 1.			122-145, 2-34
933	HHFML06	878912	943	140 - 559	2348	Lys-36 to Lys-41, Val-133 to Asn-140.	AR055: 9, AR089: 6, AR052: 6, AR033: 6, AR060: 5, AR061: 5, AR096: 5, AR053: 4, AR104: 4, AR039: 1	14q24.3	104311, 109150, 182600, 245200, 601208	101-127, 3-20, 52- 68, 80-96

934	HEEAG84	878975	944	181 - 645	2349	Lys-13 to Thr-19.	AR096: 12, AR060: 10, AR055: 8, AR053: 8, AR104: 7, AR089: 7, AR052: 6, AR033: 5, AR039: 5, AR061: 4 H0549: 1 and H0538: 1.				33-51
935	HE8PT01	878979	945	1519 - 1929	2350	Met-113 to Arg-118.	AR039: 29, AR033: 19, AR104: 18, AR055: 18, AR053: 16, AR089: 13, AR052: 13, AR096: 13, AR060: 12, AR061: 12 L0747: 4, L0777: 4, S0222: 2, L0471: 2, L0455: 2, L0803: 2, L0790: 2, L0742: 2, L0748: 2, L0439: 2, L0753: 2, L0759: 2, L0717: 1, H0013: 1, H0575: 1, S0010: 1, H0350: 1, T0006: 1, L0770: 1, L0764: 1, L0794: 1, L0784: 1, L0806: 1, L0805: 1, S0052: 1, H0144: 1, L0438: 1, H0689: 1, L0749: 1, L0758: 1, H0445: 1 and L0599: 1.				91-109, 121-137
936	HMVCG79	879020	946	38 - 853	2351	Thr-28 to Arg-34, Leu-47 to Ser-53.	AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 3, AR039: 3, AR052: 3, AR053: 3,	6ql4-q15	136550, 203310, 269920, 602772	141-165, 233-255, 3-25, 56- 72, 166-	

937	HSLJF33	879040	947	18 - 521	2352	Glu-65 to Gly-71.	AR061: 2, AR055: 1 S0002: 4, S0206: 4, L0748: 2, L0740: 2, L0777: 2, S0212: 1, H0661: 1, S0278: 1, H0370: 1, H0123: 1, S0142: 1, L0800: 1, L0790: 1, H0539: 1, H0555: 1, S3014: 1, S0028: 1, L0754: 1 and L0759: 1.			183, 104- 120, 199- 215
							AR096: 2, AR039: 2, AR053: 1, AR052: 1, AR061: 1, AR089: 1, AR055: 0, AR033: 0, AR060: 0, AR104: 0 S0390: 1			97-126, 14-39, 43- 63, 125- 141
938	HFKJI43	879115	948	60 - 377	2353		AR033: 33, AR104: 32, AR055: 22, AR039: 20, AR053: 16, AR089: 16, AR096: 13, AR060: 13, AR052: 12, AR061: 8 L0747: 17, S0442: 15, L0665: 13, S0358: 11, S0444: 11, S0408: 10, S0374: 10, H0597: 7, H0620: 6, L0375: 6, L0518: 5, H0539: 5, L0750: 5, H0135: 4, L0764: 4, L0776: 4, H0144: 4, L0751: 4, H0352: 4, H0170: 3, S0376:			52-82

939	HFVHV40	879156	949	104 - 808	2354	Tyr-122 to Asp-127, Glu-138 to Pro-150, Arg-160 to Asn-169.	1, H0553: 1, H0644: 1, H0321: 1, H0100: 1, L0351: 1, H0494: 1, H0560: 1, S0372: 1, S0440: 1, L0637: 1, L5575: 1, L0761: 1, L0643: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0650: 1, L0774: 1, L0654: 1, L0636: 1, L0809: 1, L0647: 1, L0792: 1, H0702: 1, H0520: 1, H0519: 1, H0690: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0174: 1, S0146: 1, S0406: 1, H0555: 1, S0027: 1, L0745: 1, L0779: 1, L0777: 1, L0753: 1, L0758: 1, L0759: 1, S0436: 1, L0601: 1, L0603: 1, S0106: 1, H0668: 1, S0026: 1 and S0412: 1.					74-91, 170-186, 1-17
							AR033: 6, AR055: 6, AR053: 5, AR096: 5, AR052: 5, AR104: 4, AR061: 4, AR060: 4, AR039: 3, AR089: 3 L0758: 16, L0748: 10, H0620: 7, L0731: 6, H0246: 5, S0007: 4, H0253: 4, L0769: 4, L0754: 4, H0052:					

				3, H0100: 3, L0638: 3, L0766: 3, L0774: 3, S0152: 3, S3014: 3, L0439: 3, H0265: 2, H0556: 2, T0002: 2, S6024: 2, H0656: 2, H0341: 2, S0212: 2, S0376: 2, H0619: 2, H0261: 2, S0222: 2, H0318: 2, H0012: 2, T0010: 2, H0068: 2, H0551: 2, H0413: 2, H0494: 2, L0770: 2, L0768: 2, L0650: 2, L0776: 2, S3012: 2, L0741: 2, L0749: 2, L0750: 2, L0759: 2, L0608: 2, L0595: 2, H0352: 2, S0040: 1, L0760: 1, S0116: 1, S0282: 1, H0638: 1, S0418: 1, S0356: 1, H0393: 1, H0549: 1, H0550: 1, H0592: 1, H0333: 1, H0486: 1, T0114: 1, H0250: 1, H0069: 1, S0280: 1, H0156: 1, H0599: 1, H0575: 1, H0036: 1, H0618: 1, H0597: 1, H0178: 1, N0006: 1, H0563: 1, H0197: 1, H0199: 1, H0051: 1, H0083: 1, H0060: 1, H0188: 1, H0290: 1, H0284: 1, H0428: 1, H0622: 1, L0483: 1, H0124:								
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940	HTXLR12	879160	950	714 - 2069	2355	Tyr-48 to Asn-54.	1, H0135: 1, H0163: 1, H0040: 1, H0264: 1, H0412: 1, L0564: 1, H0130: 1, H0641: 1, S0144: 1, S0002: 1, L0763: 1, L0761: 1, L0372: 1, L0643: 1, L0764: 1, L0771: 1, L0648: 1, L0767: 1, L0803: 1, L0804: 1, L0375: 1, L0378: 1, L0659: 1, L0544: 1, L0665: 1, H0703: 1, L0352: 1, H0670: 1, S0328: 1, S0330: 1, H0134: 1, H0436: 1, S0027: 1, L0747: 1, L0756: 1, L0777: 1, L0753: 1, S0260: 1, H0445: 1, L0597: 1, H0653: 1 and S0194: 1.						425-451, 415-431
941	HDQEX68	879167	951	10 - 1470	2356	Asp-4 to Glu-9, Ala-44 to Glu-62,	AR052: 4, AR055: 4, AR039: 3, AR060: 3, AR096: 3, AR033: 3, AR053: 2, AR089: 2, AR061: 2, AR104: 2 H0038: 2, H0265: 1, H0556: 1, S0134: 1, H0645: 1, S0222: 1, L0455: 1, S0328: 1, S0028: 1, L0591: 1 and S0194: 1.	4					371-388, 295-311,

Leu-113 to Gln-120, Asp-131 to Glu-137, Lys-187 to Glu-194, Glu-315 to Arg-321, Gln-433 to Ser-439, Lys-446 to Pro-451, Lys-463 to Ser-470.	AR089: 3, AR060: 2, AR104: 2, AR061: 2, AR039: 2, AR055: 1 S0192: 11, L0731: 10, L0754: 8, L0439: 5, S0022: 4, H0551: 4, L0747: 4, H0046: 3, S0003: 3, H0031: 3, H0616: 3, L0771: 3, L0766: 3, L0666: 3, H0521: 3, L0759: 3, S0212: 2, H0575: 2, H0251: 2, H0596: 2, H0050: 2, L0471: 2, H0024: 2, H0328: 2, H0111: 2, L0803: 2, L0804: 2, L0659: 2, S0374: 2, L0438: 2, S0126: 2, S0028: 2, L0740: 2, S0040: 1, T0049: 1, H0650: 1, S0358: 1, H0580: 1, S0046: 1, H0640: 1, S0300: 1, H0574: 1, H0632: 1, H0270: 1, H0013: 1, H0156: 1, H0545: 1, H0051: 1, H0355: 1, H0510: 1, S0214: 1, H0615: 1, H0644: 1, L0055: 1, H0163: 1, H0090: 1, H0038: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, S0344: 1, S0210: 1, S0002: 1, L0369: 1, L0646: 1, L0521: 1.	88-104
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								L0662: 1, L0794: 1, L0774: 1, L0806: 1, L0805: 1, L0809: 1, L0367: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0519: 1, H0670: 1, H0696: 1, S0406: 1, S0027: 1, L0751: 1, L0749: 1, L0750: 1, L0757: 1, L0480: 1, L0608: 1, S0011: 1, S0026: 1, S0242: 1, S0196: 1 and S0424: 1.				
942	HTPHG81	879182	952	198 - 1127	2357	Pro-9 to Glu-16, Ser-25 to Asp-31, Glu-55 to Glu-61, Met-87 to Gly-104, Cys-151 to Trp-157, Arg-222 to Gln-231, Val-275 to Pro-284.			AR039: 19, AR053: 13, AR096: 9, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6 H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1.			239-255, 114-130, 203-219
943	HETFJ66	879189	953	82 - 1503	2358	Pro-12 to Val-29, Glu-35 to Arg-40, Arg-46 to Ile-52, Tyr-88 to Ser-97, Gly-112 to Cys-117.			AR055: 5, AR052: 4, AR053: 3, AR061: 3, AR060: 3, AR033: 2, AR089: 2, AR096: 1, AR104: 0, AR039: 0 L0794: 24, H0046: 20, L0747: 5, L0748: 4, L0749: 4, H0013: 3, H0624: 2, H0553: 2, H0090: 2, L0761: 2, L0800: 2, L0767: 2,			195-211, 115-131

944	HUVC58	879222	954	116 - 1750	2359	Arg-34 to Glu-41, Met-74 to Thr-80, Glu-124 to Lys-133, Pro-166 to Val-177, Arg-234 to Val-244, Ile-251 to Arg-259, Leu-261 to Leu-269, Gln-271 to Arg-284, Lys-399 to Pro-407, Ile-449 to Ser-458, Lys-464 to Gln-474.	L0805: 2, L0791: 2, L0666: 2, L0438: 2, L0754: 2, L0755: 2, H0171: 1, H0265: 1, H0657: 1, H0656: 1, H0663: 1, H0580: 1, H0645: 1, S6014: 1, H0050: 1, H0428: 1, T0006: 1, L0456: 1, H0591: 1, H0040: 1, H0087: 1, H0100: 1, T0042: 1, L5566: 1, L0764: 1, L0776: 1, L0792: 1, L4501: 1, H0144: 1, H0547: 1, S0406: 1, L0439: 1, L0740: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0752: 1, L0759: 1 and L0600: 1.				297-331, 138-166, 4-35, 404- 431, 41- 73, 360- 385, 99- 123, 494- 516, 188- 210, 339- 355
						AR089: 9, AR096: 8, AR033: 8, AR052: 7, AR053: 7, AR060: 5, AR061: 3, AR055: 3, AR104: 0 L0752: 8, L0766: 6, S0444: 5, L0770: 5, L0439: 5, L0731: 5, S0360: 3, H0031: 3, L0803: 3, S0126: 3, L0755: 3, L0758: 3, S0358: 2, H0722: 2, H0090: 2, H0056: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, H0519: 2, S0330: 2,					

	H0521: 2, L0747: 2, H0170: 1, H0716: 1, H0740: 1, S0114: 1, S0212: 1, S0442: 1, S0354: 1, H0580: 1, H0329: 1, H0431: 1, H0497: 1, H0331: 1, H0574: 1, H0632: 1, H0486: 1, H0427: 1, L0021: 1, H0036: 1, H0274: 1, S0010: 1, H0318: 1, H0581: 1, H0374: 1, H0052: 1, H0596: 1, H0597: 1, H0545: 1, H0373: 1, S0388: 1, H0107: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0553: 1, H0163: 1, H0087: 1, T0067: 1, H0494: 1, H0560: 1, S0438: 1, S0440: 1, S0426: 1, UNKWN: 1, L0598: 1, L0763: 1, L0769: 1, L0638: 1, L0761: 1, L0641: 1, L0776: 1, L0379: 1, L0657: 1, L0809: 1, L0519: 1, L0791: 1, L0663: 1, H0684: 1, H0672: 1, S0378: 1, H0522: 1, S0404: 1, S0406: 1, S0028: 1, L0750: 1, L0756: 1, L0753: 1, S0031: 1, H0445: 1, H0595: 1, S0436: 1, L0581: 1, L0608:	
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945	HDPGJ03	879294	955	475 - 32	2360	Asp-25 to Gln-32, Asn-40 to Lys-46, Trp-54 to Asn-62.	1, S0011: 1, S0026: 1, S0192: 1, S0196: 1, H0423: 1 and S0424: 1. AR104: 2, AR096: 2, AR052: 1, AR039: 1, AR055: 1, AR033: 1, AR060: 1, AR061: 1, AR089: 0, AR053: 0 S0278: 5, S0144: 5, S0002: 4, H0521: 4, S0003: 3, S0344: 3, H0575: 1, H0364: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1 and L0776: 1.				60-87	
946	HUSIT07	879441	956	111 - 902	2361	Arg-24 to Arg-29, Arg-144 to Asn-151.	AR053: 10, AR033: 10, AR052: 9, AR089: 9, AR055: 8, AR060: 5, AR061: 4, AR039: 3, AR096: 2, AR104: 0 H0435: 3, S0476: 2, H0590: 2, L0758: 2, H0656: 1, H0484: 1, H0729: 1, S0046: 1, H0393: 1, H0632: 1, H0013: 1, S0474: 1, S0049: 1, H0074: 1, L0455: 1, H0598: 1, H0412: 1, L0648: 1, L0649: 1, L0527: 1, L0657: 1, L0659: 1, L0530: 1, H0539: 1, H0521:				1-22, 172- 195, 214- 241, 89- 122, 82- 98, 150- 166	

947	HWHHN5 5	879514	957	114 - 1013	2362	Gly-14 to Lys-22.	1 and S0032: 1. AR039: 19, AR096: 9, AR104: 8, AR033: 8, AR053: 8, AR052: 7, AR089: 6, AR055: 5, AR060: 5, AR061: 4 S0348: 1, S0418: 1, H0592: 1 and H0586: 1.			215-231
948	HTTJH57	879541	958	15 - 839	2363	Pro-8 to Ser-14, Leu-16 to Gly-25, Gly-33 to Gly-38, Glu-43 to Glu-51.	AR052: 5, AR055: 5, AR060: 3, AR039: 3, AR061: 3, AR089: 2, AR033: 2, AR096: 2, AR053: 1, AR104: 1 H0052: 1, H0286: 1, H0634: 1 and L0771: 1.			238-255
949	HMSND53	879589	959	22 - 1947	2364	Lys-37 to Lys-47, Thr-87 to Lys-93, Gly-100 to Val-105, Gln-111 to Thr-128, Pro-155 to Asp-173, Gln-177 to Gln-184, Glu-202 to Leu-216, Asn-272 to Asp-277, Asp-289 to His-297, Gly-395 to Phe-402, His-435 to Ala-440, Asp-489 to Glu-498, Arg-581 to Gln-586, Thr-611 to Arg-616,	AR060: 2, AR096: 2, AR089: 2, AR033: 2, AR053: 2, AR061: 1, AR052: 1, AR055: 1, AR104: 1 L0439: 9, L0471: 3, H0591: 2, H0547: 2, H0624: 1, H0170: 1, S0430: 1, H0656: 1, S0110: 1, S0420: 1, S0376: 1, T0114: 1, H0427: 1, H0071: 1, H0275: 1, T0010: 1, S6028: 1, H0266: 1, H0428: 1, H0031: 1, H0090: 1, H0038: 1,			254-270, 357-373, 595-611, 541-557

950	HMSNQ62	879610	960	149 - 1783	2365	Glu-624 to Cys-636.	H0040: 1, H0551: 1, S0014: 1, H0646: 1, S0426: 1, H0529: 1, L0766: 1, H0520: 1, S0126: 1, H0689: 1, H0518: 1, L0754: 1, L0485: 1 and H0423: 1.				109-125, 523-539
							AR055: 5, AR060: 4, AR096: 4, AR039: 3, AR053: 3, AR052: 3, AR033: 3, AR061: 3, AR089: 3, AR104: 2 H0457: 4, L0754: 4, L0803: 3, L0439: 3, H0575: 2, H0617: 2, L0662: 2, L0804: 2, L0805: 2, L0750: 2, L0731: 2, H0656: 1, H0484: 1, H0255: 1, H0663: 1, L0717: 1, H0549: 1, S0222: 1, H0602: 1, H0486: 1, H0013: 1, H0581: 1, H0251: 1, H0046: 1, H0150: 1, H0428: 1, H0553: 1, H0040: 1, H0063: 1, H0264: 1, H0623: 1, S0002: 1, S0426: 1, L0762: 1, L0763: 1, L0769: 1, L0766: 1, L0774: 1, L0787: 1, L0666: 1, L0663: 1, L0665: 1, L0565: 1, H0689: 1, H0658: 1, H0670: 1, S0136: 1.				

951	HGBHG78	879611	961	175 - 582	2366	Arg-63 to Thr-73, Pro-85 to Ser-92.	H0521: 1, L0748: 1, L0747: 1, L0752: 1 and H0423: 1. AR055: 15, AR053: 11, AR052: 10, AR089: 8, AR033: 8, AR060: 8, AR096: 7, AR061: 6, AR104: 6, AR039: 4 H0014: 1 and L0752: 1.	22q13.31	250100, 250800, 250800	40-57, 22-38	
952	HTLHJ08	879620	962	59 - 967	2367	His-204 to Pro-209.	AR039: 44, AR055: 30, AR053: 22, AR033: 21, AR089: 19, AR060: 19, AR052: 18, AR096: 17, AR104: 16, AR061: 14 H0107: 2, L0758: 2, H0618: 1, H0154: 1, H0553: 1, H0038: 1 and H0616: 1.			70-98, 101-125, 169-190, 138-154	
953	HSIDI48	879670	963	60 - 923	2368	His-102 to Gln-108, Asp-251 to Tyr-263, Gly-274 to Lys-288.	AR089: 17, AR052: 12, AR096: 9, AR039: 9, AR060: 8, AR104: 7, AR053: 6, AR033: 5, AR061: 5, AR055: 3 L0439: 17, L0777: 7, L0766: 6, L0740: 6, L0758: 5, L0483: 4, L0592: 4, H0178: 3, L0794: 3, S0358: 2, H0036: 2, H0039: 2, H0622: 2, H0644: 2, L0804: 2, L0775: 2, L0805: 2, L0438: 2, L0352: 2, H0670:			171-199, 78-97, 230-249, 33-50, 113-129, 215-231, 155-171, 15-31	

954	HRDDU37	879672	964	15 - 611	2369	Leu-21 to Lys-29, Gly-39 to Pro-51, Arg-68 to Lys-73, Val-91 to Pro-97, Glu-113 to Arg-120, Val-122 to Gly-131.	2, L0754: 2, L0785: 1, S0212: 1, H0664: 1, L0005: 1, S0356: 1, S0354: 1, H0329: 1, S0007: 1, S0046: 1, H0632: 1, H0486: 1, H0590: 1, S0010: 1, H0581: 1, S0049: 1, H0052: 1, L0471: 1, H0328: 1, T0023: 1, H0553: 1, H0181: 1, H0673: 1, H0674: 1, H0090: 1, H0059: 1, L0598: 1, L0769: 1, L0638: 1, L0761: 1, L0771: 1, L0803: 1, L0776: 1, L0659: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1, S0374: 1, H0520: 1, H0658: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, S0404: 1, H0631: 1, S0028: 1, L0743: 1, L0750: 1, L0731: 1, H0444: 1, L0366: 1, S0026: 1, S0424: 1 and H0506: 1.					141-162
						AR033: 4, AR055: 3, AR061: 2, AR060: 2, AR096: 2, AR089: 2, AR052: 2, AR039: 1, AR053: 1, AR104: 0 L0439: 11, L0750: 5, L0766: 4, L0803: 4, H0519:						

955	HFLUI19	879691	965	1084 - 2682	2370	Glu-26 to Lys-33, His-45 to Asn-50, Asp-149 to Tyr-154, Asn-175 to Asp-181, Gly-268 to Gln-275, Leu-375 to Asp-383, Thr-441 to Gly-456.	4, L0752: 4, S0438: 3, H0521: 3, L0747: 3, H0265: 2, H0638: 2, H0046: 2, L0805: 2, L0791: 2, L0438: 2, L0743: 2, L0748: 2, L0780: 2, L0731: 2, H0716: 1, L0002: 1, H0341: 1, S0212: 1, H0305: 1, H0589: 1, S0444: 1, T0039: 1, H0427: 1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0090: 1, H0616: 1, H0202: 1, T0041: 1, H0647: 1, S0344: 1, S0422: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.			404-420, 286-302, 195-211
						AR089: 1, AR033: 1, AR061: 1, AR060: 1, AR096: 0, AR052: 0, AR039: 0, AR055: 0 S0028: 8, S0282: 2, S0045: 2, S0031: 2, S0260: 2, S0001: 1, H0255: 1, S0132:				

						Thr-499 to Arg-504.		1, S0278: 1, H0318: 1, H0199: 1, S0050: 1, S0051: 1, H0181: 1, S0036: 1, H0264: 1, S0144: 1, S0044: 1 and S0027: 1.				
956	HTWAG66	879698	966	354 - 803	2371			AR055: 11, AR060: 9, AR061: 9, AR033: 7, AR052: 6, AR053: 6, AR096: 6, AR089: 5, AR104: 5, AR039: 4, H0306: 1, H0637: 1, H0187: 1 and S0106: 1.				76-98
957	HLCLE14	879732	967	14 - 424	2372	His-34 to Tyr-39, Pro-113 to Glu-119.		AR033: 7, AR055: 7, AR060: 5, AR096: 5, AR052: 5, AR104: 4, AR089: 4, AR053: 4, AR061: 4, AR039: 2, L0751: 16, H0617: 14, L0766: 13, L0731: 9, L0743: 8, H0253: 7, H0052: 7, L0769: 6, H0521: 6, L0742: 6, L0759: 6, H0587: 5, H0618: 5, L0763: 5, L0764: 5, L0744: 5, L0758: 5, H0039: 3, S0210: 3, L0800: 3, L0662: 3, L0794: 3, L0659: 3, L0666: 3, L0747: 3, L0753: 3, L0757: 3, H0483: 2, H0494: 2,				119-137

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958	HOFMH52	879744	968	307 - 777	2373	Arg-106 to Pro-115, Asn-134 to Lys-139, Pro-144 to Asp-151.	S0350: 1, S0188: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0027: 1, L0780: 1, L0592: 1, L0361: 1, H0668: 1, H0653: 1, S0192: 1, H0542: 1, H0423: 1, S0424: 1, S0456: 1 and H0352: 1.				46-64, 27- 43
							AR039: 12, AR104: 6, AR096: 5, AR033: 5, AR053: 5, AR052: 4, AR089: 4, AR060: 4, AR055: 3, AR061: 2 L0748: 7, L0766: 5, H0040: 3, L0747: 3, L0777: 3, L0755: 3, H0657: 2, H0486: 2, H0596: 2, S0372: 2, L0803: 2, S0126: 2, L0740: 2, L0754: 2, L0749: 2, L0758: 2, S0026: 2, H0170: 1, H0265: 1, H0125: 1, S0358: 1, S0410: 1, S0007: 1, L0717: 1, H0431: 1, H0415: 1, H0333: 1, H0642: 1, T0060: 1, H0156: 1, H0599: 1, H0530: 1, H0081: 1, H0050: 1, L0471: 1, H0239: 1, H0510: 1, H0266: 1, H0179: 1, H0068: 1, H0163: 1, H0087: 1,				

959	HWAHE17	879774	969	229 - 633	2374	Pro-80 to Lys-86, Thr-92 to Gln-106.	S0438: 1, L0598: 1, L0500: 1, L0761: 1, L0764: 1, L0805: 1, L0655: 1, L0789: 1, L0663: 1, L0665: 1, H0648: 1, H0215: 1, S0406: 1, L0756: 1, L0759: 1 and H0542: 1.				1445, 53- 70, 35-51
960	HWAEG32	879900	970	27 - 530	2375	Leu-70 to Glu-75, Arg-131 to Ser-138.	AR096: 3, AR055: 1, AR033: 1, AR060: 1, AR104: 1, AR061: 1, AR089: 0, AR052: 0 S0354: 1, H0581: 1, L0770: 1, L0752: 1 and L0759: 1.				1-32, 48- 66, 78-94
961	HSLHB42	879927	971	479 - 886	2376		AR039: 150, AR096: 20, AR053: 19, AR055: 11, AR089: 8, AR052: 4, AR033: 3, AR060: 2, AR061: 2, AR104: 1 S6026: 1, S0222: 1, H0191: 1, H0581: 1, H0544: 1 and H0598: 1.				41-57, 17- 33, 77-93

962	HDSAC28	879957	972	72 - 425	2377	Pro-27 to Leu-34, Ser-41 to His-54, Ala-81 to Ser-90.	3, S0028: 3, L0754: 3, S0222: 2, H0591: 2, L0374: 2, L0803: 2, L0809: 2, H0521: 2, L0752: 2, L0731: 2, H0171: 1, H0713: 1, H0638: 1, S0444: 1, S0410: 1, L0021: 1, H0706: 1, H0545: 1, H0562: 1, H0051: 1, H0188: 1, H0553: 1, L0142: 1, H0090: 1, H0551: 1, L0351: 1, H0561: 1, L0763: 1, L0769: 1, L0761: 1, L0771: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, H0144: 1, S0122: 1, H0659: 1, H0522: 1, S0044: 1, H0626: 1, L0744: 1, L0747: 1, L0756: 1, L0755: 1, S0260: 1, S0436: 1, S0242: 1 and H0542: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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963	HFIHT27	879972	973	47 - 1873	2378	Pro-23 to Ser-30, Lys-64 to Gly-69, Arg-110 to Glu-117, Asp-218 to Lys-223, Lys-243 to Gly-249, Ala-448 to Glu-453, Asp-479 to Gln-485, Asn-504 to Ser-510, Pro-547 to Gln-557.	AR052: 3, AR096: 3, AR039: 2, AR061: 2, AR055: 2, AR053: 1, AR089: 1, AR033: 1, AR060: 1, AR104: 1 S0358: 1, H0580: 1, T0039: 1, H0519: 1, S0194: 1 and H0543: 1.			399-415, 335-351, 6-22, 45- 61
964	HBIMS61	879980	974	318 - 704	2379		AR039: 30, AR053: 23, AR096: 20, AR033: 18, AR089: 18, AR104: 17, AR052: 16, AR055: 15, AR060: 12, AR061: 9 L0803: 5, L0763: 3, S0360: 2, H0556: 1, H0369: 1, H0392: 1, H0599: 1, H0581: 1, H0251: 1, H0012: 1, L0770: 1, L0800: 1, L0375: 1, L0807: 1, L0809: 1, L0647: 1, L0663: 1, H0593: 1 and L0779: 1.			38-63, 71- 94, 10-26
965	HCDAH28	880010	975	781 - 1227	2380		AR061: 11, AR055: 7, AR096: 6, AR060: 5, AR052: 5, AR033: 4, AR089: 3, AR053: 3, AR104: 2, AR039: 2 H0251: 8, H0624: 4, L0752: 4, H0171: 1, H0286:			79-103, 113-136, 8-24

966	HSDFD90	880039	976	866 - 1399	2381	Gln-9 to Gly-15.	1, L0598: 1, L0774: 1, S0428: 1, H0144: 1 and S0126: 1. AR104: 82, AR033: 43, AR055: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 4, AR039: 4, AR053: 4, AR061: 3 S0126: 2, H0171: 1, S0134: 1, S0053: 1 and S0031: 1.			143-171, 48-68, 15- 33, 73-89
967	HTLJK34	880137	977	177 - 782	2382	Thr-125 to Gly-141, Pro-151 to Leu-156, Cys-160 to Lys-169, Lys-175 to Lys-187.	AR055: 10, AR060: 6, AR061: 5, AR033: 5, AR089: 4, AR096: 4, AR053: 4, AR052: 3, AR104: 3, AR039: 2 L0758: 5, H0618: 1, H0616: 1 and L0794: 1.			30-57, 12- 28, 105- 121
968	HNGK65	880142	978	1207 - 1671	2383	Ala-97 to His-105.	AR033: 1, AR039: 1, AR089: 1, AR060: 1, AR096: 1, AR053: 1, AR061: 0, AR052: 0, AR055: 0, AR104: 0 H0687: 2, S0428: 1, H0682: 1 and S0032: 1.			21-52, 53- 77, 123- 144, 105- 121, 14-30
969	HHENP77	880178	979	770 - 2893	2384	Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321,	AR039: 11, AR033: 7, AR096: 6, AR053: 5, AR052: 5, AR104: 4, AR089: 4, AR060: 4,			625-652, 3-19, 210- 226, 150- 166, 494-

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970	HDPBD83	880199	980	1139 - 1720	2385	Arg-8 to Glu-21.	AR089: 1, AR096: 1, AR060: 1, AR053: 1, AR033: 1, AR104: 1, AR061: 1, AR055: 0, AR039: 0, AR052: 0 H0046: 18, H0556: 8, L0731: 8, L0749: 6, H0457: 5, H0266: 5, L0761: 5, L0747: 5, H0265: 4, H0009: 4, L0764: 4, L0565: 4, L0758: 4, H0255: 3, H0012: 3, H0620: 3, H0264: 3,				100-117

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3, L0665: 3, H0658: 3,
L0750: 3, H0294: 2, H0619:
2, H0599: 2, H0424: 2,
H0551: 2, S0002: 2, L0766:
2, L0774: 2, L0775: 2,
L0602: 2, H0521: 2, L0743:
2, L0759: 2, S0434: 2,
L0591: 2, H0422: 2, H0717:
1, H0716: 1, H0583: 1,
H0657: 1, H0341: 1, S0356:
1, H0208: 1, S0045: 1,
S0046: 1, S0476: 1, S0278:
1, H0431: 1, H0370: 1,
H0586: 1, H0643: 1, H0559:
1, L0622: 1, L0623: 1,
H0590: 1, H0004: 1, H0618:
1, H0253: 1, T0048: 1,
H0581: 1, H0196: 1, H0052:
1, H0194: 1, H0530: 1,
H0545: 1, H0178: 1, H0081:
1, S0051: 1, H0271: 1,
H0188: 1, H0033: 1, H0213:
1, H0031: 1, H0553: 1,
H0628: 1, S0364: 1, H0598:
1, H0616: 1, H0477: 1,
H0272: 1, H0413: 1, H0623:
1, H0100: 1, H0494: 1,
S0344: 1, S0208: 1, S0210:
1, H0529: 1, L0369: 1,

971	HHEVU86	880221	981	157 - 480	2386	Pro-46 to Ser-55, Gly-90 to His-96.	L0640: 1, L0770: 1, L0637: 1, L0372: 1, L0643: 1, L0374: 1, L0375: 1, L0776: 1, L0659: 1, L0636: 1, L0518: 1, L0382: 1, L0519: 1, L0647: 1, L0663: 1, H0144: 1, H0723: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, S0406: 1, L0612: 1, S0037: 1, L0741: 1, L0744: 1, L0439: 1, L0740: 1, L0751: 1, L0757: 1, S0031: 1, H0707: 1, L0485: 1 and H0543: 1.				53-75, 28- 44
972	HNFB27	880254	982	309 - 1484	2387		AR096: 11, AR089: 9, AR039: 8, AR104: 5, AR053: 5, AR052: 5, AR060: 4, AR033: 4, AR055: 1, AR061: 1 H0635: 1, H0052: 1, L0648: 1, L0601: 1 and H0543: 1. AR096: 3, AR039: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR053: 0, AR104: 0				276-309

973	HAPSG46	880278	983	6 - 434	2388				H0052: 8, H0620: 3, H0494: 2, L0741: 2, S0046: 1, H0645: 1, H0587: 1, H0485: 1, H0156: 1, L0032: 1, H0569: 1, H0012: 1, H0014: 1, T0010: 1, H0375: 1, H0416: 1, H0622: 1, H0553: 1, S0036: 1, H0702: 1, L0438: 1, H0547: 1, H0435: 1, H0660: 1, H0555: 1, L0611: 1 and H0506: 1.				15-39, 90- 114, 70- 89, 38-60
974	HTEDK31	880341	984	179 - 529	2389				AR061: 2, AR039: 1, AR060: 1, AR089: 1, AR033: 1, AR096: 0, AR053: 0, AR055: 0, AR104: 0, AR052: 0 S0001: 2, H0575: 1, S0388: 1 and S0260: 1.				19-42, 1- 18, 77-93, 53-69
975	HCWFW0 7	880358	985	111 - 662	2390	Pro-22 to Thr-29, Gln-120 to Arg-128, Asn-151 to Phe-167.			AR096: 6, AR104: 4, AR033: 3, AR055: 3, AR060: 3, AR089: 3, H0038: 2, L0770: 2, H0597: 1, H0616: 1, L0560: 1 and L0526: 1.				42-68, 97- 116

976	HUFCR29	880363	986	498 - 1154	2391	Met-1 to Gln-7, Pro-9 to Leu-14, Trp-27 to Arg-33.	AR052: 2, AR039: 1, AR061: 1, AR053: 1 L0766: 5, L0777: 4, H0305: 2, L0362: 2, H0624: 1, H0208: 1, H0441: 1, H0599: 1, S0010: 1, H0318: 1, H0052: 1, H0616: 1, H0560: 1, L0768: 1, L0805: 1, S0406: 1, L0748: 1, L0758: 1 and L0592: 1.					107-138, 140-173, 65-91, 31- 57
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977	HNTCN90	880370	987	338 - 637	2392			S0406: 1, L0439: 1, L0755: 1, S0260: 1, L0599: 1 and H0506: 1. AR061: 3, AR096: 2, AR055: 1, AR053: 1, AR104: 1, AR089: 1, AR033: 1, AR060: 1, AR039: 0, AR052: 0 H0676: 1, H0013: 1, H0553: 1, H0529: 1, H0519: 1, L0745: 1 and L0759: 1.			33-66, 2- 19
978	HCMSE07	880378	988	555 - 896	2393	Glu-59 to Gln-65.		AR096: 95, AR039: 83, AR104: 79, AR033: 64, AR060: 48, AR089: 42, AR061: 42, AR053: 40, AR052: 38, AR055: 27 H0651: 155, L0731: 9, L0777: 6, L0803: 4, L0775: 3, H0196: 2, H0163: 2, L0662: 2, L0805: 2, L0783: 2, L0438: 2, L0740: 2, L0759: 2, H0170: 1, S0444: 1, H0592: 1, H0632: 1, L0471: 1, H0399: 1, H0615: 1, H0040: 1, S0294: 1, H0647: 1, L0598: 1, L0763: 1, L0638: 1, L0637: 1, L0642: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1,			65-83, 86- 102

979	HWMEV6 1	880405	989	1227 - 1529	2394	Gln-26 to Cys-32.	L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0606: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1.				55-73, 3- 19, 35-51
980	HDPWT82	880431	990	41 - 730	2395		AR039: 15, AR033: 8, AR104: 5, AR089: 5, AR096: 5, AR052: 5, AR053: 4, AR060: 4, AR055: 4, AR061: 3 H0253: 2, L0455: 2, L0764: 2, L0649: 2, L0754: 2, S0358: 1, H0046: 1, H0617: 1, H0090: 1, H0038: 1, S0142: 1, S0344: 1, L0646: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0658: 1, L0659: 1, L0789: 1, H0539: 1, S0404: 1, S0406: 1, L0439: 1, L0750: 1, L0777: 1 and L0780: 1.				24-56, 183-207,

								AR089: 1, AR061: 1, AR104: 0, AR052: 0, AR039: 0, AR055: 0 H0171: 4, L0803: 3, H0521: 3, H0624: 2, S0358: 2, S0222: 1, H0574: 1, L0040: 1, H0622: 1, T0006: 1, L0455: 1, L0763: 1, L0662: 1, L0766: 1, L0655: 1, L0659: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0522: 1, H0540: 1, L0744: 1, L0779: 1, H0445: 1, L0589: 1, S0458: 1 and H0506: 1.				115-136, 151-169, 70-86, 96- 112
981	HBGOU17	880444	991	41 - 505	2396	Gln-67 to Ala-73, Ala-85 to Asp-90, Arg-102 to Thr-112.		AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 4, AR052: 4, AR053: 4, AR096: 2, AR104: 2, AR039: 0 L0748: 9, H0617: 4, S0222: 2, L0769: 2, L0756: 2, L0758: 2, H0341: 1, S0001: 1, S0358: 1, H0619: 1, T0040: 1, S0346: 1, H0052: 1, H0081: 1, H0266: 1, L0143: 1, S0142: 1, S0344: 1, L0774: 1, L0784: 1, H0144: 1, H0651: 1, S0027: 1, L0777: 1 and			118-142	

982	HHAMV78	880520	992	585 - 265	2397	Pro-23 to Gly-29, Glu-101 to Asp-107.	S0011: 1, AR104: 210, AR033: 209, AR061: 205, AR096: 150, AR060: 149, AR055: 120, AR089: 118, AR039: 110, AR052: 77, AR053: 56 L0755: 6, L0774: 4, L0776: 4, L0747: 4, L0750: 4, L0769: 3, L0809: 3, L0439: 3, S0358: 2, H0333: 2, H0545: 2, L0770: 2, L0764: 2, L0803: 2, L0775: 2, S0328: 2, S0330: 2, H0696: 2, L0777: 2, H0008: 2, H0556: 1, T0002: 1, H0656: 1, L0785: 1, H0341: 1, H0483: 1, L0005: 1, S0007: 1, H0549: 1, L0623: 1, H0599: 1, H0052: 1, L0157: 1, L0471: 1, H0023: 1, H0615: 1, T0023: 1, H0031: 1, H0644: 1, L0055: 1, S0366: 1, S0036: 1, H0135: 1, H0063: 1, T0067: 1, H0560: 1, S0422: 1, L0371: 1, L0521: 1, L0766: 1, L0375: 1, L0805: 1, L0653: 1, L0661: 1, L0658: 1, L0526: 1, L0531: 1, L0530: 1, L0789: 1, L0666:				60-85
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								1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1.				
983	HMALN60	880542	993	3 - 512	2398	Arg-6 to Gln-13, Thr-44 to Ser-50, Pro-145 to Asn-168.		AR060: 5, AR096: 3, AR055: 3, AR061: 2, AR104: 1, AR033: 0, AR089: 0, AR053: 0, AR052: 0 S0045: 1, S0278: 1, H0617: 1 and S0044: 1.				93-110
984	HETBT53	880575	994	66 - 1574	2399	Ser-30 to Leu-36, His-55 to Asn-61, Gln-71 to Gln-96, Pro-129 to Lys-136, Lys-146 to Ser-157, Gly-215 to Ala-220, Ala-250 to Ser-256, Phe-316 to Arg-323, Pro-421 to Ala-427, Leu-435 to Asp-440, Ser-453 to Asp-460.		AR060: 6, AR055: 3, AR089: 1, AR039: 1, AR104: 1, AR033: 1, AR061: 1, AR053: 0, AR096: 0, AR052: 0 H0046: 3, L0601: 3, H0013: 2, H0050: 2, H0620: 2, L0774: 2, S0222: 1, L0471: 1, H0012: 1, L0455: 1, S0150: 1, L0770: 1, L0775: 1, L0655: 1, H0144: 1, H0521: 1, H0134: 1, L0752: 1, S0260: 1 and S0042: 1.				166-182, 401-417
985	HRAEC49	880595	995	148 - 1251	2400	Phe-30 to Arg-36, Ser-68 to Trp-75.		AR096: 8, AR089: 7, AR060: 7, AR104: 6,				71-101, 339-363,

								AR039: 5, AR053: 5, AR052: 5, AR033: 4, AR061: 2, AR055: 1 S0222: 3, L0769: 3, L0361: 3, H0156: 2, H0046: 2, H0179: 2, L0794: 2, L0791: 2, H0521: 2, H0555: 2, L0779: 2, L0758: 2, H0624: 1, S0114: 1, H0393: 1, H0549: 1, H0550: 1, S0220: 1, H0357: 1, H0415: 1, H0586: 1, H0331: 1, H0574: 1, H0036: 1, S0010: 1, H0581: 1, H0052: 1, H0596: 1, H0178: 1, H0014: 1, S0051: 1, T0010: 1, H0271: 1, H0553: 1, L0143: 1, H0617: 1, H0040: 1, H0616: 1, H0063: 1, H0551: 1, H0561: 1, H0652: 1, L5575: 1, L0764: 1, L0806: 1, L0809: 1, H0144: 1, S0374: 1, H0539: 1, S0378: 1, H0518: 1, H0478: 1, L0751: 1, L0747: 1, L0750: 1, L0780: 1, L0731: 1, L0366: 1, S0026: 1 and H0667: 1.					149-168, 45-65, 8- 25, 292- 309, 109- 125
986	HNHBD03	880637	996	100 - 1140	2401	Met-1 to Gly-7, Arg-31 to Val-38.	AR055: 5, AR052: 3, AR060: 2, AR033: 2,			254-271, 233-249			

987	HTTCB17	880657	997	55 - 1743	2402	Met-40 to Arg-45, Arg-78 to Phe-84, Gly-120 to Gly-126, Phe-150 to Asp-156, Leu-167 to Gly-176, Thr-195 to Thr-202, Asn-336 to Leu-344.	AR089: 2, AR061: 1, AR096: 1, AR104: 1, AR039: 0, AR053: 0 L0766: 5, L0779: 5, L0731: 4, S0358: 3, L0770: 2, L0794: 2, S0374: 2, L0747: 2, L0749: 2, S0444: 1, H0013: 1, H0575: 1, H0581: 1, H0572: 1, H0354: 1, H0622: 1, H0591: 1, H0551: 1, H0494: 1, S0440: 1, H0529: 1, L0796: 1, L0773: 1, L0662: 1, L0804: 1, L0659: 1, L0790: 1, S0053: 1, H0690: 1, H0648: 1, H0672: 1, S0028: 1, L0780: 1, S0434: 1, S0192: 1, H0543: 1 and H0423: 1.				
						Trp-15 to Gly-46.	AR052: 11, AR053: 9, AR055: 8, AR033: 6, AR060: 6, AR096: 5, AR061: 4, AR089: 4, AR104: 4, AR039: 3 L0766: 8, L0748: 7, H0038: 4, H0543: 4, L0779: 3, H0624: 2, S0007: 2, H0083: 2, L0805: 2, L0666: 2, H0547: 2, L0439: 2, L0777: 2, L0758: 2, L0596: 2, L0599: 2, S0026: 2,				47-63, 233-249

988	HE9QG38	880670	998	345 - 1646	2403	Met-1 to Arg-7, Pro-11 to Phe-16, Gly-23 to Glu-34, Trp-124 to Arg-132, Gln-165 to Asp-181, Phe-216 to Thr-221, Gln-286 to Ser-301, Gly-317 to Gln-322, Asp-357 to Asn-366.	AR061: 6, AR052: 5, AR055: 4, AR096: 4, AR089: 4, AR053: 3, AR033: 3, AR060: 3, AR039: 2, AR104: 1 L0766: 7, L0803: 4, H0144: 4, L0779: 3, H0271: 2, S0003: 2, L0761: 2, L0792: 2, L0755: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0656: 1, S0356: 1, H0580: 1, H0619: 1,	H0657: 1, S0212: 1, H0255: 1, S0420: 1, S0358: 1, S0444: 1, S0360: 1, H0431: 1, S0414: 1, H0004: 1, S0010: 1, H0597: 1, H0546: 1, H0354: 1, H0266: 1, H0383: 1, H0361: 1, H0040: 1, H0616: 1, L0151: 1, H0264: 1, H0560: 1, L0520: 1, L0640: 1, L0638: 1, L0794: 1, L0803: 1, L0375: 1, L0806: 1, L0655: 1, L0663: 1, H0520: 1, H0519: 1, H0670: 1, H0672: 1, S0146: 1, H0555: 1, L0752: 1, L0731: 1, L0759: 1, S0031: 1, H0445: 1, L0595: 1 and L0366: 1.				52-68
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989	HTTJY18	880697	999	310 - 1263	2404	Met-1 to Lys-8, Lys-23 to Ala-31.	H0600: 1, H0632: 1, H0318: 1, H0563: 1, H0428: 1, H0039: 1, H0553: 1, H0090: 1, H0038: 1, H0040: 1, H0623: 1, S0440: 1, S0150: 1, H0641: 1, S0002: 1, L0769: 1, L0764: 1, L0662: 1, L0775: 1, L0776: 1, H0547: 1, S0126: 1, S0152: 1, L0740: 1, L0754: 1, L0749: 1, L0777: 1, L0752: 1, H0423: 1 and H0422: 1.					282-308, 110-126
							AR096: 3, AR052: 1, AR055: 1, AR039: 1, AR104: 1, AR089: 1, AR053: 1, AR061: 1, AR060: 0, AR033: 0 L0766: 43, L0754: 12, L0740: 11, S0358: 9, H0575: 7, L0803: 7, L0747: 6, L0731: 6, L0761: 5, L0662: 5, L0805: 5, L0744: 5, L0748: 5, L0779: 5, L0794: 4, H0710: 4, L0749: 4, L0750: 4, L0752: 4, L0757: 4, L0471: 3, H0264: 3, S0210: 3, L0806: 3, S0126: 3, S0328: 3, L0743: 3, L0777: 3, L0759: 3, H0423: 3, S0376: 2, H0013:					

			2, S0474: 2, H0581: 2, H0179: 2, H0628: 2, H0038: 2, H0623: 2, H0641: 2, S0142: 2, S0426: 2, L0800: 2, L0771: 2, L0768: 2, L0649: 2, L0774: 2, L0655: 2, L0607: 2, L0791: 2, H0144: 2, S0374: 2, L0438: 2, H0696: 2, S0406: 2, H0436: 2, L0745: 2, L0746: 2, L0756: 2, L0753: 2, L0755: 2, L0362: 2, S0026: 2, H0170: 1, H0341: 1, S0001: 1, H0664: 1, H0638: 1, S0442: 1, S0046: 1, S6022: 1, H0611: 1, H0370: 1, H0642: 1, L0021: 1, H0599: 1, H0003: 1, L0022: 1, H0036: 1, H0004: 1, H0274: 1, S0010: 1, L0105: 1, H0421: 1, H0052: 1, H0251: 1, H0046: 1, H0572: 1, H0050: 1, H0242: 1, H0012: 1, S0050: 1, H0014: 1, H0083: 1, H0375: 1, S0250: 1, S0003: 1, T0023: 1, L0483: 1, T0006: 1, H0031: 1, L0142: 1, L0055: 1, H0032: 1, H0674: 1, L0455: 1, S0036: 1, H0090:								
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990	HPSND10	880733	1000	63 - 1469	2405	Ser-30 to Leu-35, Pro-44 to Glu-63, Arg-138 to Ala-143, Phe-170 to Asp-177, Arg-248 to Phe-253, Ser-270 to Ala-277, Asp-322 to Gly-335, Leu-363 to Ser-369, Tyr-381 to Glu-388, Arg-455 to Arg-460.	1, H0040: 1, H0634: 1, H0616: 1, T0067: 1, H0488: 1, H0433: 1, H0056: 1, H0560: 1, H0529: 1, L0369: 1, L0762: 1, L0770: 1, L0638: 1, L0373: 1, L0372: 1, L0764: 1, L0773: 1, L0804: 1, L0776: 1, L0659: 1, L0518: 1, L0384: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, S0148: 1, H0547: 1, H0659: 1, H0670: 1, H0539: 1, S0378: 1, H0518: 1, H0521: 1, H0555: 1, S0028: 1, L0758: 1, H0445: 1, S0434: 1, L0588: 1, S0192: 1, H0543: 1, S0458: 1 and S0384: 1. AR096: 90, AR053: 49, AR039: 45, AR052: 27, AR089: 22, AR055: 15, AR033: 14, AR061: 14, AR104: 13, AR060: 10 L0439: 6, H0556: 2, S0007: 2, L0744: 2, L0740: 2, L0731: 2, S0442: 1, L0021: 1, H0618: 1, H0253: 1, H0041: 1, L0770: 1, L0800: 1, L0766: 1, L0803: 1, L0375: 1, L0807: 1,				230-246, 89-107, 199-215, 122-138, 149-165
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991	HDABX58	880753	1001	924 - 1490	2406	Met-1 to Thr-7, Trp-12 to Trp-17.	L0382: 1, L0791: 1, L0793: 1, L0352: 1, S0432: 1, L0741: 1 and L0779: 1. AR052: 8, AR039: 7, AR033: 7, AR089: 7, AR053: 6, AR096: 6, AR104: 5, AR055: 5, AR060: 4, AR061: 4 L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768:	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575	37-57, 138-154, 82-98
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				1437	Tyr-125 to Gly-132, Asn-157 to Glu-166, Glu-228 to Glu-233, Ser-315 to Asp-323, Leu-332 to Leu-337, Ser-363 to Lys-371, Thr-446 to Ile-452.	AR052: 8, AR060: 8, AR053: 7, AR033: 6, AR055: 6, AR039: 5, AR104: 5, AR061: 4 H0584: 5, H0599: 5, H0556: 4, H0124: 4, H0341: 3, H0559: 3, H0622: 3, H0125: 2, S0045: 2, H0620: 2, H0024: 2, T0042: 2, L0665: 2, H0265: 1, S6024: 1, H0583: 1, H0208: 1, S0046: 1, H0393: 1, S0278: 1, H0549: 1, H0550: 1, H0438: 1, H0586: 1, H0486: 1, H0250: 1, S0280: 1, H0706: 1, H0253: 1, H0009: 1, H0687: 1, H0284: 1, H0424: 1, H0031: 1, S0366: 1, H0116: 1, H0056: 1, S0038: 1, H0494: 1, H0132: 1, H0131: 1, H0130: 1, L0662: 1, L0803: 1, S0428: 1, S0216: 1, H0144: 1, S0126: 1, H0670: 1, H0518: 1, S0152: 1, S0118: 1, S3014: 1, L0759: 1 and S0011: 1.		172471, 182381	25-41, 377-393, 166-182
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995	HTXJF02	880913	1005	122 - 646	2410	Ala-15 to Gln-20, Tyr-89 to Glu-103, Lys-156 to Gly-163.	Pro-107 to Thr-115, Ala-146 to Lys-151, Arg-243 to Tyr-254, Lys-309 to Trp-318.	AR104: 3, AR060: 3, AR061: 2, AR089: 2, H0556: 3, H0341: 2, H0144: 2, L0743: 2, H0543: 2, H0295: 1, H0661: 1, S0046: 1, H0587: 1, H0333: 1, H0486: 1, H0013: 1, H0618: 1, H0009: 1, H0024: 1, T0010: 1, H0553: 1, T0042: 1, S0150: 1, S0142: 1, S0422: 1, L0787: 1, H0519: 1, S0152: 1, H0134: 1, L0779: 1, S0434: 1, S0276: 1 and H0422: 1.				288-304, 151-167, 118-134, 188-204, 449-465
996	HKAEN78	880927	1006	66 - 479	2411	Tyr-46 to Gly-52.	AR104: 7, AR033: 6, AR053: 6, AR052: 6, AR039: 5, AR060: 3, AR055: 3, AR096: 3, AR089: 3, AR061: 1 S0356: 2, S0002: 2, L0772: 2, L0748: 2, L0758: 2,					134-155, 26-45, 59- 77, 112- 129
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997	HKADD76	880936	1007	93 - 1070	2412	Arg-49 to Tyr-62, Tyr-88 to Ala-97, Gly-230 to Lys-239, Gln-270 to Cys-276, Glu-296 to Gly-304.	Arg-49 to Tyr-62, Tyr-88 to Ala-97, Gly-230 to Lys-239, Gln-270 to Cys-276, Glu-296 to Gly-304.	AR096: 2, AR052: 1, AR061: 1, AR089: 1, AR060: 0, AR053: 0, AR033: 0, AR039: 0, AR104: 0 H0264: 4, H0488: 4, S0328: 3, S0306: 2, S0476: 1, H0272: 1, H0487: 1, H0494: 1, H0633: 1, L5623: 1 and S0330: 1.	2			239-268, 145-171, 100-118, 194-210, 5-21, 65-81, 132-148, 308-324
998	HKIYF62	880972	1008	140 - 517	2413	Val-7 to Lys-12, Tyr-58 to Leu-64, Arg-91 to Ser-104, Pro-117 to Val-126.	Val-7 to Lys-12, Tyr-58 to Leu-64, Arg-91 to Ser-104, Pro-117 to Val-126.	AR039: 28, AR096: 21, AR104: 18, AR060: 16, AR061: 16, AR089: 15, AR053: 15, AR055: 14, AR033: 13, AR052: 10 L0748: 17, H0521: 13, L0655: 4, H0522: 4, L0754: 4, H0575: 3, L0439: 3,	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700,	70-90, 12-28	

999	HBXAT65	881010	1009	145 - 918	2414	Asp-18 to Gly-24, Asp-63 to Met-70, Ser-82 to Pro-89, Glu-117 to Ser-125, Glu-151 to Asp-171.	L0605: 3, H0619: 2, S0010: 2, H0050: 2, S0051: 2, H0644: 2, S0344: 2, L0646: 2, L0775: 2, L0776: 2, L0666: 2, L0758: 2, L0366: 2, S0282: 1, H0255: 1, H0661: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0592: 1, H0632: 1, S0280: 1, H0590: 1, H0309: 1, H0327: 1, H0150: 1, H0123: 1, H0024: 1, H0014: 1, T0010: 1, H0355: 1, H0510: 1, H0375: 1, H0328: 1, T0006: 1, H0031: 1, L0143: 1, H0087: 1, S0112: 1, L0435: 1, S0142: 1, L0770: 1, L0773: 1, L0767: 1, L0794: 1, L0803: 1, L0805: 1, L0606: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, L0749: 1, L0756: 1, L0777: 1 and S0436: 1. AR104: 17, AR033: 17, AR060: 15, AR061: 9, AR053: 7, AR089: 4, AR052: 4, AR039: 3, AR096: 2 L0438: 7, L0769: 4,			161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884		225-252, 181-202
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1000	HDQDF85	881146	1010	227 - 1615	2415	Ser-2 to Ser-7, Gly-44 to Asp-50, Ala-60 to Lys-70.	L0439: 4, L0777: 3, S0222: 2, H0599: 2, H0052: 2, H0039: 2, S0038: 2, L0662: 2, L0745: 2, L0747: 2, L0756: 2, S6024: 1, H0305: 1, H0441: 1, H0097: 1, T0082: 1, S0010: 1, H0196: 1, H0327: 1, H0620: 1, H0408: 1, S6028: 1, H0328: 1, T0006: 1, L0770: 1, L0650: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0809: 1, L0792: 1, H0682: 1 and L0750: 1.	16			410-426, 186-202
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1001	HRAAA79	881197	1011	56 - 433	2416	Ala-31 to Gly-45.	<p>H0318: 1, T0001: 1, H0009: 1, H0620: 1, S0051: 1, H0179: 1, H0271: 1, H0416: 1, H0688: 1, H0617: 1, H0135: 1, H0087: 1, H0625: 1, H0561: 1, S0002: 1, S0426: 1, L0763: 1, L0769: 1, L0773: 1, L0766: 1, L0381: 1, L0804: 1, S0374: 1, H0593: 1, H0690: 1, H0672: 1, H0651: 1, H0214: 1, H0436: 1, S3014: 1, S0028: 1, L0758: 1, L0608: 1 and L0362: 1.</p> <p>AR039: 4, AR096: 4, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR104: 2, AR055: 2, AR061: 1, S0126: 9, L0777: 5, L0752: 4, H0013: 3, L0775: 3, H0144: 3, L0779: 3, L0731: 3, S0003: 2, L0770: 2, L0766: 2, L0659: 2, L0439: 2, L0754: 2, L0757: 2, L0758: 2, H0624: 1, H0171: 1, S0040: 1, H0657: 1, S0420: 1, S0354: 1, S0358: 1, H0619: 1, H0333: 1, H0331: 1, H0156: 1,</p>					108-126, 84-100, 2-18
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1002	HOOQC11	881219	1012	78 - 2348	2417	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	L0021: 1, H0575: 1, H0590: 1, H0052: 1, T0110: 1, H0011: 1, H0266: 1, H0165: 1, H0412: 1, H0413: 1, H0494: 1, L0800: 1, L0764: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0776: 1, L0519: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, S0436: 1, L0601: 1 and H0506: 1, AR096: 4, AR089: 3, AR039: 3, AR104: 3, AR053: 3, AR052: 2, AR033: 2, AR061: 2, AR060: 2, AR055: 1 H0457: 8, H0556: 6, L0751: 6, H0618: 4, H0318: 4, H0038: 3, L0766: 3, S0442: 2, S0354: 2, H0553: 2, H0616: 2, H0100: 2, L0764: 2, L0662: 2, L0659: 2, L0783: 2, L0528: 2, S0152: 2, L0756: 2, L0731: 2, L0587: 2, H0667: 2, H0543: 2, H0295: 1, H0294: 1, S0134: 1, H0657: 1, S0418: 1, L0617: 1, S0376: 1, S0444: 1, S0360: 1,	22			318-335, 451-467, 152-168, 243-259
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1003	HUKTA08	881310	1013	625 - 170	2418	Glu-105 to Val-112.	Lys-651 to Val-679, Lys-700 to Ser-706, Pro-714 to Ala-738, Asp-747 to Gly-753.	H0619: 1, H0369: 1, H0370: 1, T0039: 1, H0427: 1, H0581: 1, H0597: 1, H0123: 1, H0024: 1, H0200: 1, H0051: 1, H0510: 1, H0266: 1, H0271: 1, H0290: 1, H0428: 1, H0424: 1, H0030: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0165: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0087: 1, H0264: 1, L0770: 1, L0627: 1, L0372: 1, L0646: 1, L0768: 1, L0775: 1, L0658: 1, L0809: 1, L0665: 1, H0701: 1, H0699: 1, S0126: 1, H0684: 1, H0539: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0752: 1, L0759: 1, L0596: 1, L0599: 1, L0593: 1, S0192: 1 and H0422: 1.				44-60, 134-150
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1004	HFPAD41	881359	1014	74 - 436	2419				H0123: 1, H0057: 1, H0014: 1, S0362: 1, H0051: 1, H0179: 1, H0615: 1, L0483: 1, L0142: 1, T0042: 1, S0440: 1, S0150: 1, L0369: 1, L0761: 1, L0764: 1, L0364: 1, L0389: 1, L0804: 1, L0659: 1, L0809: 1, L0787: 1, L0663: 1, H0702: 1, H0520: 1, H0593: 1, H0689: 1, H0690: 1, H0683: 1, S0378: 1, H0518: 1, H0522: 1, S0044: 1, H0555: 1, H0478: 1, L0749: 1, L0786: 1, L0779: 1, S0260: 1, H0445: 1, S0434: 1 and H0422: 1.				83-104, 18-34, 55-72
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1005	HPJCS44	881430	1015	29 - 454	2420	His-35 to Ala-40, His-44 to Leu-56, Pro-64 to Pro-71, Arg-95 to Asn-110, Ser-114 to Pro-132.	AR055: 13, AR033: 12, AR060: 10, AR089: 9, AR061: 8, AR096: 7, AR052: 5, AR053: 5, AR104: 4, AR039: 3 H0318: 3, H0046: 3, L0742: 3, L0747: 3, S0046: 2, H0455: 2, L0748: 2, S0342: 1, H0662: 1, S0358: 1, S0444: 1, S0278: 1, H0370: 1, T0040: 1, S0280: 1, H0565: 1, L0471: 1, H0014: 1, S0388: 1, H0266: 1, H0288: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0518: 1, S0374: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0390: 1, L0750: 1, L0752: 1, L0731: 1, L0592: 1 and H0423: 1.			72-93
1006	HTAIV82	881434	1016	267 - 581	2421		AR033: 2, AR089: 1, AR060: 1, AR061: 0, AR039: 0 H0265: 1, H0556: 1, H0574: 1, H0635: 1 and H0423: 1.			55-71, 79- 95
1007	HACBW10	881438	1017	1112 - 1414	2422	His-22 to Thr-28, His-89 to Cys-96.	AR039: 38, AR052: 26, AR053: 25, AR104: 21,			66-87

				AR089: 21, AR096: 21, AR033: 21, AR055: 20, AR060: 14, AR061: 11, L0439: 13, L0438: 11, L0769: 10, L0766: 7, L0749: 5, L0666: 3, L0352: 3, L0748: 3, L0779: 3, H0637: 2, H0052: 2, H0194: 2, L0351: 2, L0770: 2, L0761: 2, L0783: 2, L0789: 2, L0790: 2, L0664: 2, L0747: 2, L0758: 2, L0759: 2, H0445: 2, L0592: 2, H0624: 1, H0556: 1, H0686: 1, T0049: 1, H0657: 1, H0483: 1, H0663: 1, H0638: 1, S0420: 1, S0376: 1, S0007: 1, H0619: 1, H0393: 1, L0717: 1, H0441: 1, H0643: 1, S0280: 1, H0253: 1, H0318: 1, S0388: 1, T0010: 1, H0271: 1, H0428: 1, H0424: 1, H0606: 1, L0456: 1, H0056: 1, H0494: 1, S0352: 1, H0538: 1, H0529: 1, L0763: 1, L0772: 1, L0378: 1, L0657: 1, L0658: 1, L0659: 1, H0144: 1, H0693: 1, H0520: 1, H0690: 1, H0658: 1, H0539:								
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1008	HUFBN79	881443	1018	20 - 610	2423	Phe-5 to Ala-19, Ser-29 to Asp-41, Leu-49 to Val-57, Glu-68 to Arg-77, Pro-163 to Glu-171.	1, H0521: 1, H0436: 1, S0037: 1, S0206: 1, L0740: 1, L0754: 1, L0593: 1, S0011: 1, H0665: 1, S0242: 1, H0423: 1 and H0422: 1. AR053: 3, AR039: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR061: 1, AR033: 1, AR060: 0, AR104: 0 L0748: 9, S0007: 6, L0754: 5, S0134: 3, H0457: 3, L0771: 3, L0666: 3, L0749: 3, H0657: 2, S0420: 2, S0358: 2, S0360: 2, S0222: 2, L0761: 2, L0764: 2, L0766: 2, L0607: 2, L0809: 2, H0648: 2, L0742: 2, L0759: 2, H0506: 2, H0686: 1, H0583: 1, S0116: 1, H0450: 1, S0045: 1, H0640: 1, H0351: 1, H0600: 1, H0574: 1, L0021: 1, H0575: 1, H0274: 1, H0581: 1, T0003: 1, H0014: 1, H0099: 1, H0179: 1, T0023: 1, H0673: 1, H0264: 1, H0102: 1, H0494: 1, H0561: 1, H0538: 1, L0598: 1, L0637: 1, L0667: 1, L0772:				169-191, 99-115
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1009	HCFCN07	881450	1019	66 - 575	2424	Ser-48 to Trp-54, Pro-77 to Phe-84, Leu-89 to Leu-103, Met-110 to Asp-132, Glu-165 to Glu-170.	1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0364: 1, L0649: 1, L0650: 1, L0653: 1, L0655: 1, L0542: 1, L0526: 1, L0789: 1, L0663: 1, L0664: 1, L0665: 1, L0565: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, H0521: 1, H0696: 1, L0744: 1, L0439: 1, L0751: 1, L0745: 1, L0746: 1, L0747: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1, L0588: 1, L0581: 1, L0361: 1, S0242: 1, H0542: 1, UNKWN: 1, L0600: 1 and H0352: 1.						54-78, 17- 40
							AR089: 12, AR033: 9, AR052: 8, AR053: 7, AR039: 7, AR055: 6, AR096: 5, AR060: 5, AR061: 2, AR104: 2 L0747: 8, L0752: 7, S0358: 6, L0758: 6, H0521: 5, L0740: 5, L0757: 5, L0771: 4, L0749: 4, L0731: 4, L0362: 4, S0360: 3, H0486: 3, H0551: 3, L0766: 3, L0775: 3, S0376: 2,						

					H0457: 2, H0050: 2, H0266: 2, S0214: 2, S0036: 2, H0647: 2, L0769: 2, L0764: 2, L0776: 2, L0659: 2, H0593: 2, L0744: 2, L0748: 2, L0756: 2, L0777: 2, L0755: 2, S0260: 2, L0590: 2, L0599: 2, H0422: 2, S0398: 2, H0170: 1, H0265: 1, S0040: 1, T0049: 1, H0650: 1, H0663: 1, S0354: 1, H0580: 1, S0007: 1, S0045: 1, H0586: 1, H0587: 1, L0622: 1, H0013: 1, H0156: 1, H0042: 1, H0318: 1, H0546: 1, H0373: 1, S0388: 1, H0040: 1, H0264: 1, S0150: 1, S0344: 1, L0763: 1, L0770: 1, L0772: 1, L0646: 1, L0648: 1, L0662: 1, L0768: 1, L0774: 1, L0806: 1, L0805: 1, L0653: 1, L0655: 1, L0809: 1, L0789: 1, H0144: 1, S0374: 1, H0547: 1, H0519: 1, S0126: 1, S0122: 1, H0690: 1, H0658: 1, H0522: 1, S0027: 1, L0779: 1, L0759: 1, L0595: 1, S0026: 1, S0276: 1, H0542: 1				
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1010	HLWDZ66	881490	1020	219 - 683	2425	Pro-8 to Ser-18, Thr-59 to Gly-66, Asn-107 to Gln-112, Ser-136 to Glu-152.	S0424: 1, H0677: 1 and H0506: 1. AR096: 4, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0759: 7, L0803: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, T0040: 1, H0036: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, H0519: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, H0555: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.				65-81
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1011	HEONP58	881498	1021	80 - 568	2426	Trp-114 to Ala-120, Thr-147 to Asp-153.	AR039: 3, AR033: 3, AR089: 2, AR061: 2, AR096: 2, AR052: 2, AR055: 2, AR060: 1, AR104: 1, AR053: 1 L0809: 3, L0769: 2, L0764: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, L0438: 2, S0328: 2, L0731: 2, L0603: 2, H0583: 1, H0549: 1, H0438: 1, H0586: 1, H0486: 1, H0052: 1, H0457: 1, H0553: 1, H0561: 1, L0640: 1, L0770: 1, L0638: 1, L0761: 1, L0800: 1, L0644: 1, L0771: 1, L0662: 1, L0767: 1, L0768: 1, L0775: 1, L0655: 1, L0559: 1, L0518: 1, L0783: 1, L0789: 1, L0790: 1, L0664: 1, S0380: 1, S0406: 1, L0777: 1 and L0757: 1.			91-114, 3- 23, 59-75
1012	HMAGN19	881531	1022	694 - 1074	2427	Pro-12 to Ala-23, Thr-90 to Thr-95.	AR096: 4, AR052: 3, AR039: 2, AR053: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0 S0045: 6, S0028: 5, S0278: 2, S0031: 2, S0282: 1, S0046: 1, S6026: 1, H0550:			95-121, 32-48

1013	HFCAP42	881569	1023	640 - 1227	2428		1, S0222: 1, H0013: 1, H0318: 1, H0246: 1, H0271: 1, S0052: 1, S0428: 1, S0037: 1 and L0592: 1. AR033: 2, AR104: 1, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0 H0545: 7, H0617: 7, S0360: 4, H0658: 4, H0494: 3, H0295: 2, S0212: 2, H0661: 2, S0358: 2, H0606: 2, S0440: 2, L0769: 2, L0794: 2, L0783: 2, L0749: 2, L0601: 2, H0713: 1, H0717: 1, H0716: 1, H0294: 1, S0418: 1, S0356: 1, H0733: 1, S0045: 1, S0132: 1, S0278: 1, H0586: 1, L0622: 1, H0599: 1, H0581: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0150: 1, H0009: 1, H0564: 1, H0620: 1, S0388: 1, H0375: 1, H0615: 1, H0031: 1, S0036: 1, H0059: 1, S0450: 1, H0633: 1, S0426: 1, L0371: 1, L0770: 1, L0645: 1, L0768: 1, L0804: 1,	1q31	134580, 145001, 145260, 150292, 208250, 226450, 600105, 600759, 600995, 601652	84-101, 175-191
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1014	HWBBT49	881570	1024	70 - 1095	2429	Glu-96 to Lys-106.	L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0666: 1, H0547: 1, S0126: 1, H0689: 1, H0539: 1, S012: 1 and L0740: 1. AR096: 1, AR052: 1, AR033: 0, AR061: 0, AR089: 0, AR055: 0, AR053: 0, AR039: 0, AR060: 0, AR104: 0 L0439: 6, S0002: 5, S0360: 3, H0580: 3, H0575: 3, S0346: 3, L0483: 3, L0804: 3, L0748: 3, H0597: 2, S0144: 2, L0662: 2, L0517: 2, L0665: 2, L0438: 2, L0754: 2, L0779: 2, S0242: 2, S0420: 1, S0356: 1, H0574: 1, H0042: 1, H0570: 1, H0510: 1, H0375: 1, S6028: 1, H0622: 1, L0194: 1, H0634: 1, H0413: 1, S0464: 1, S0344: 1, L0638: 1, L0761: 1, L0643: 1, L0493: 1, L0659: 1, L0783: 1, L0530: 1, L0666: 1, S0374: 1, H0593: 1, S0126: 1, H0435: 1, H0521: 1, H0478: 1, L0749: 1, L0777: 1, L0731: 1, H0445: 1,					2-23, 52-68, 128-144
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1015	HDPBT62	881683	1025	90 - 473	2430	Asn-31 to Thr-37, Arg-83 to Asn-88.	S0434: 1, S0194: 1 and H0543: 1. AR039: 45, AR053: 40, AR104: 30, AR096: 29, AR052: 29, AR033: 27, AR089: 23, AR055: 20, AR060: 16, AR061: 14 H0521: 3, H0457: 2, H0497: 1, H0014: 1, H0179: 1, L0766: 1, H0698: 1, . H0542: 1 and H0506: 1.				43-59, 90- 106
1016	HDTIT02	881693	1026	111 - 572	2431	Thr-29 to Arg-36, Cys-41 to Arg-57, Lys-62 to Gln-67, Gly-75 to Ile-83, Lys-123 to Thr-131, Leu-137 to Glu-145.	AR089: 11, AR033: 9, AR052: 7, AR060: 7, AR053: 6, AR055: 5, AR061: 4, AR096: 2, AR104: 2, AR039: 0 L0747: 16, L0748: 15, L0731: 10, L0752: 8, L0775: 7, L0750: 7, S0328: 6, L0757: 6, S0358: 5, S3014: 5, S0354: 3, H0038: 3, H0040: 3, L0774: 3, S0378: 3, H0696: 3, S0360: 2, H0393: 2, H0587: 2, H0069: 2, H0110: 2, H0413: 2, T0042: 2, S0422: 2, L0763: 2, L0770: 2, L0772: 2, L0764: 2, L0768: 2, L0806: 2, L0666: 2, H0659:				99-122

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1017	HWHHS59	881714	1027	46 - 612	2432	Pro-19 to Ala-24.	1, S0196: 1, H0542: 1, H0422: 1 and S0384: 1. AR096: 8, AR053: 8, AR052: 7, AR089: 6, AR033: 6, AR055: 4, AR060: 4, AR104: 3, AR039: 2, AR061: 2 H0052: 3, L0751: 3, H0624: 2, S0418: 2, L0562: 2, H0179: 2, L0761: 2, L0771: 2, L0766: 2, L0659: 2, L0750: 2, L0777: 2, L0590: 2, S0376: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0581: 1, H0546: 1, H0571: 1, H0083: 1, H0266: 1, H0181: 1, H0617: 1, H0124: 1, H0634: 1, H0551: 1, H0488: 1, L0351: 1, L0769: 1, L0637: 1, L0662: 1, L0378: 1, L0805: 1, L0655: 1, L0788: 1, L0666: 1, L0664: 1, L0665: 1, H0547: 1, H0519: 1, H0659: 1, H0521: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0543: 1.				156-175, 67-83, 7- 23, 45-61
1018	HJPCP29	881766	1028	24 - 737	2433	Gln-81 to Gly-88.	AR055: 9, AR053: 5, AR052: 5, AR096: 5,				27-56, 164-181,

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1019	HHEBM09	881890	1029	132 - 461	2434	Leu-22 to Ser-27.	AR096: 5, AR104: 4, AR039: 4, AR052: 4, AR053: 3, AR055: 2, AR089: 2, AR033: 2,				85-104, 65-83			

1020	HDPIV17	881907	1030	41 - 739	2435	Ser-62 to Ala-69, Gly-77 to Gly-98.	AR061: 1, AR060: 1 L0748: 3, S0250: 1, L0751: 1 and H0542: 1. AR060: 1, AR055: 1, AR089: 1, AR061: 1, AR033: 0, AR096: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 L0766: 3, H0635: 1, H0318: 1, H0581: 1, H0457: 1, H0179: 1, H0560: 1, H0561: 1, L0764: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0790: 1, L0791: 1, L0792: 1, L0665: 1, H0521: 1, L0779: 1 and L0758: 1.				180-196, 118-134, 8-24, 44- 60
1021	HBGNO49	881968	1031	86 - 496	2436	Pro-16 to Gly-24, Glu-41 to Phe-49, Glu-81 to Gln-95, Arg-104 to Ser-114.	AR052: 18, AR055: 16, AR033: 14, AR053: 12, AR104: 11, AR089: 9, AR096: 8, AR061: 8, AR060: 8, AR039: 0 H0617: 3 and H0428: 1.				50-72
1022	HWAFQ40	882003	1032	149 - 562	2437	Met-1 to Ser-12, Pro-28 to Cys-39.	AR055: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR089: 0, AR096: 0, AR053: 0, AR033: 0, AR104: 0 L0766: 34, S0360: 7,				82-105

	L0731: 7, S0152: 6, L0779: 6, H0144: 5, L0751: 5, L0752: 5, L0809: 4, H0521: 4, L0759: 4, L0590: 4, H0543: 4, H0341: 3, H0575: 3, H0251: 3, S0003: 3, L0747: 3, L0749: 3, L0757: 3, L0599: 3, S0212: 2, S0358: 2, H0549: 2, H0592: 2, H0497: 2, H0486: 2, H0013: 2, H0318: 2, H0038: 2, H0040: 2, H0623: 2, H0560: 2, L0775: 2, S0122: 2, S0028: 2, L0743: 2, L0750: 2, L0777: 2, L0758: 2, H0445: 2, L0604: 2, S0194: 2, L0600: 2, H0159: 1, S0134: 1, L0785: 1, H0662: 1, H0402: 1, L0481: 1, S0420: 1, S0356: 1, H0637: 1, H0393: 1, H0431: 1, H0612: 1, H0587: 1, T0039: 1, H0427: 1, L0021: 1, H0599: 1, H0004: 1, S0010: 1, H0581: 1, H0421: 1, S0049: 1, H0544: 1, H0545: 1, L0471: 1, H0014: 1, L0163: 1, H0083: 1, H0510: 1, H0375: 1, S0250: 1, S0022: 1, S0214: 1,		
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1023	HTLGZ03	882014	1033	1117 - 1545	2438	Ser-10 to Pro-17.	H0622: 1, H0674: 1, H0316: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, S0002: 1, S0426: 1, L0369: 1, L0770: 1, L0769: 1, L0761: 1, L0772: 1, L0644: 1, L0764: 1, L0521: 1, L0662: 1, L0804: 1, L0774: 1, L0655: 1, L0527: 1, L0663: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, H0660: 1, S0328: 1, H0539: 1, S0380: 1, H0522: 1, L0740: 1, L0754: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1, S0026: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and H0506: 1. AR055: 11, AR060: 6, AR033: 6, AR061: 5, AR052: 5, AR089: 5, AR053: 4, AR096: 4, AR104: 3, AR039: 2 H0253: 4, H0584: 3, H0457: 3, L0005: 2, H0587: 2, H0599: 2, H0581: 2, H0539: 2, H0521: 2, S0040: 1, H0583: 1, H0657: 1, H0484: 1, H0254: 1, H0402:				114-142
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1024	HLYCX18	882016	1034	208 - 549	2439	Trp-38 to Phe-43, Phe-103 to Trp-109.	1, H0441: 1, H0497: 1, H0486: 1, H0590: 1, H0618: 1, H0318: 1, H0050: 1, H0617: 1, H0634: 1, T0041: 1, H0529: 1, L0803: 1, L0663: 1, H0697: 1, H0593: 1, H0658: 1, H0436: 1, L0742: 1, L0743: 1, L0750: 1, L0758: 1, L0593: 1, L0603: 1, H0136: 1, H0543: 1 and H0422: 1.				65-91
1025	HSDEK82	882064	1035	129 - 503	2440	Pro-5 to Gln-17.	AR060: 243, AR033: 180, AR061: 154, AR039: 144, AR104: 119, AR055: 109, AR089: 102, AR053: 56, AR052: 54, AR096: 51 L0777: 1 and H0445: 1. AR104: 20, AR033: 14, AR060: 7, AR055: 7, AR039: 6, AR096: 5, AR061: 5, AR089: 4, AR053: 3, AR052: 3 S0051: 5, L0666: 4, S0388: 3, L0438: 3, S0036: 2, L0774: 2, L0805: 2, H0593: 2, H0670: 2, L0748: 2, L0752: 2, S0434: 2, S6024: 1, H0294: 1, S0030: 1, S0442: 1, S0360: 1, H0406:				61-91, 34- 58, 99-119

1026	HCEMU86	882164	1036	347 - 787	2441	Pro-83 to Thr-88.	1, S0010: 1, L0040: 1, H0012: 1, H0620: 1, H0014: 1, S0048: 1, T0010: 1, H0673: 1, H0038: 1, H0494: 1, L0770: 1, L0769: 1, L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1.					95-118, 51-73, 117-137, 6-23, 31- 48
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1027	HKA E F60	882197	1037	137 - 496	2442	Met-2 to Asn-7, Arg-21 to Tyr-29, Gln-33 to Ile-41, Ala-103 to Asp-120.	1, L0369: 1, L0638: 1, L0793: 1, H0520: 1, L0777: 1, L0752: 1, L0753: 1, L0758: 1, L0593: 1 and L0366: 1. AR096: 9, AR089: 8, AR104: 8, AR053: 7, AR052: 7, AR060: 5, AR039: 5, AR033: 4, AR055: 4, AR061: 2 H0585: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, L0763: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280:				40-73, 73- 99
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									1, H0266: 1, S0022: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0032: 1, H0068: 1, H0316: 1, H0135: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, H0625: 1, L0065: 1, S0150: 1, H0633: 1, H0646: 1, H0649: 1, H0652: 1, S0142: 1, S0002: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0794: 1, L0784: 1, L0806: 1, L0526: 1, L0547: 1, L0647: 1, L0791: 1, L0666: 1, L0663: 1, H0701: 1, H0691: 1, H0593: 1, H0682: 1, H0658: 1, L0355: 1, S0328: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0478: 1, S0206: 1, L0751: 1, L0746: 1, L0750: 1, L0780: 1, L0757: 1, L0759: 1, L0592: 1, L0594: 1, H0668: 1, S0026: 1, S0196: 1, H0543: 1, H0422: 1 and
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1028	HEORN16	882261	1038	431 - 1084	2443	Met-99 to Ala-114, Pro-138 to Arg-143, Thr-169 to Arg-176, Ser-207 to Pro-218.	S0460: 1. AR033: 4, AR089: 3, AR053: 2, AR060: 2, AR061: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR104: 0 L0747: 5, L0749: 4, H0657: 3, H0553: 3, L0758: 3, S0040: 2, H0341: 2, L0789: 2, L0748: 2, L0779: 2, L0753: 2, H0542: 2, H0265: 1, H0669: 1, S0418: 1, H0370: 1, H0586: 1, H0497: 1, H0427: 1, H0036: 1, H0253: 1, H0457: 1, H0086: 1, H0081: 1, H0355: 1, S0338: 1, S0340: 1, H0039: 1, H0181: 1, S0366: 1, H0598: 1, H0135: 1, H0063: 1, H0412: 1, H0413: 1, H0652: 1, S0422: 1, S0002: 1, H0529: 1, L0369: 1, L0770: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0381: 1, H0658: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, S0044: 1, H0187: 1, H0436: 1, L0741: 1, L0746: 1, L0777: 1, L0780: 1, H0343: 1, H0595:				40-61, 1- 22, 61-77
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1029	HKGBJ74	882285	1039	183 - 530	2444			1, H0707: 1, S0434: 1 and S0424: 1. AR052: 4, AR096: 4, AR053: 4, AR104: 3, AR039: 3, AR089: 2, AR055: 2, AR033: 2, AR060: 1, AR061: 1 H0549: 1 and H0538: 1.			42-58, 98- 114
1030	HOSPA48	882296	1040	119 - 1126	2445	Ala-6 to Gly-11, Ser-20 to Ser-30, Ser-60 to Ser-65, Ser-157 to Glu-170, Lys-179 to Asp-184, Ser-285 to Val-290, Pro-306 to Ser-314.		AR053: 1, AR104: 1, AR052: 1, AR089: 1, AR061: 0, AR033: 0, AR096: 0, AR060: 0, AR039: 0, AR055: 0 S0003: 6, L0777: 4, L0752: 4, H0617: 3, H0553: 2, H0124: 2, L0804: 2, L0757: 2, H0662: 1, S0045: 1, H0266: 1, S0214: 1, H0598: 1, L0666: 1, S0126: 1, H0651: 1, L0588: 1 and H0422: 1.			317-336, 131-147, 30-46, 201-217
1031	HWHQN1 6	882307	1041	124 - 1023	2446	Met-1 to Tyr-17.		AR055: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 1, AR039: 1, AR089: 1, AR096: 1, AR052: 1 L0748: 12, H0521: 11, L0755: 9, S0474: 8, L0662: 7, S0436: 7, L0596: 6,			213-245, 184-211, 100-130, 133-156, 247-267, 162-181

H0622: 5, L0754: 5, L0599: 5, S0358: 4, S0360: 4, H0031: 4, S0002: 4, L0803: 4, L0659: 4, L0666: 4, L0665: 4, S0126: 4, L0777: 4, S0434: 4, S0278: 3, H0046: 3, H0039: 3, H0551: 3, H0494: 3, H0529: 3, L0653: 3, H0672: 3, H0696: 3, L0742: 3, L0439: 3, H0149: 2, L0778: 2, H0402: 2, S0376: 2, S0444: 2, S0045: 2, S0046: 2, S0476: 2, H0549: 2, H0613: 2, H0586: 2, L0622: 2, H0575: 2, H0266: 2, H0179: 2, H0271: 2, L0483: 2, H0553: 2, S0364: 2, S0426: 2, L0769: 2, L0386: 2, L0774: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0663: 2, S0052: 2, S0374: 2, L0438: 2, H0658: 2, H0436: 2, H0576: 2, S0027: 2, L0740: 2, L0751: 2, L0747: 2, L0750: 2, L0756: 2, L0779: 2, L0731: 2, L0757: 2, S0011: 2, S0192: 2, S0194: 2, S0196: 2, H0170: 1, H0265: 1, H0556: 1,
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S0342: 1, H0713: 1, H0716: 1, H0295: 1, S0218: 1, S0116: 1, S0212: 1, H0484: 1, H0664: 1, H0662: 1, S0418: 1, S0442: 1, S0354: 1, H0729: 1, H0722: 1, H0733: 1, L0717: 1, H0431: 1, H0600: 1, H0587: 1, H0333: 1, H0331: 1, H0559: 1, H0486: 1, H0013: 1, H0250: 1, H0427: 1, S0280: 1, L0021: 1, H0599: 1, H0036: 1, L0563: 1, H0581: 1, H0173: 1, H0545: 1, H0457: 1, L0041: 1, H0150: 1, H0123: 1, H0081: 1, H0050: 1, H0197: 1, T0010: 1, H0375: 1, H0267: 1, H0188: 1, S0250: 1, H0032: 1, H0040: 1, H0616: 1, H0087: 1, H0413: 1, H0100: 1, S0112: 1, H0560: 1, H0561: 1, H0131: 1, S0144: 1, S0142: 1, S0344: 1, L0631: 1, L0770: 1, L0772: 1, L0646: 1, L0643: 1, L0771: 1, L0773: 1, L0363: 1, L0766: 1, L0650: 1, L0375: 1, L0376: 1, L0654: 1, L0655: 1, L0658: 1.
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1032	HRDEP41	882351	1042	33 - 500	2447	Gly-48 to Tyr-53, His-95 to Trp-117, Ser-123 to Gln-128.	L0382: 1, L0543: 1, L0664: 1, S0428: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0518: 1, S0152: 1, H0522: 1, S0406: 1, H0478: 1, L0611: 1, S0390: 1, S0037: 1, S0206: 1, L0743: 1, L0758: 1, S0031: 1, S0260: 1, H0595: 1, L0588: 1, L0604: 1, H0423: 1 and H0422: 1.				63-89, 2- 18
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1033	HFVIK60	882352	1043	589 - 999	2448				H0328: 1, L0455: 1, S0036: 1, S0038: 1, S0344: 1, L0761: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0809: 1, L0647: 1, L0750: 1, L0753: 1 and H0445: 1.	7q22	126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136, 602447	73-102, 2- 25	
1034	HTJAC60	882355	1044	78 - 1106	2449	Met-1 to Pro-6, Arg-14 to Thr-29, Thr-41 to Thr-48, Ser-50 to Leu-58, Glu-82 to Arg-90, Asn-185 to Lys-190, Gln-217 to Gln-222, Gln-237 to Gly-243.			AR055: 10, AR039: 7, AR060: 5, AR061: 5, AR052: 5, AR033: 4, AR096: 4, AR053: 4, AR089: 3, AR104: 1 L0771: 4, L0766: 3, L0803: 3, L0789: 3, S0114: 1, H0341: 1, H0662: 1, S0354: 1, S0360: 1, S0046: 1, H0619: 1, H0393: 1, H0036: 1, H0590: 1, H0014: 1, L0761: 1, L0772: 1, L0764: 1, L0804: 1, L0774: 1, S014: 1, L0748: 1 and L0779: 1.		134-156, 305-323, 271-287, 105-121, 166-182		

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1035	HMAIH15	882500	1045	105 - 734	2450	Gln-32 to Leu-40, Asn-177 to Trp-182.	AR096: 2, AR039: 2, AR033: 2, AR060: 2, AR053: 1, AR089: 1, AR061: 0, AR055: 0, AR052: 0, AR104: 0 S0278: 1				186-210, 1-24, 76-102, 137-154, 38-56, 58-77, 156-172
1036	HTTDZ74	882514	1046	70 - 618	2451		AR033: 248, AR061: 210, AR060: 198, AR089: 122,				16-47, 61-84, 91-

1037	HUSGC38	882527	1047	82 - 600	2452	His-156 to Ile-172.	AR055: 54, AR053: 18, AR052: 18, AR096: 16, AR039: 14, AR104: 12 S0007: 2, H0040: 2, H0509: 2, L0369: 2, S0346: 1, S0049: 1, L0371: 1, L0774: 1, L0659: 1, L0664: 1 and L0741: 1.				115, 6-22
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1038	HLHAN77	882559	1048	144 - 581	2453	Phe-17 to Asp-37, Thr-51 to Leu-67, Asn-70 to Thr-78.	L0803: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0792: 1, L0664: 1, H0144: 1, H0711: 1, H0684: 1, H0660: 1, H0672: 1, H0521: 1, H0696: 1, H0627: 1, L0742: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0589: 1, L0591: 1, L0608: 1, L0594: 1, H0653: 1, H0667: 1, H0543: 1, H0423: 1 and S0424: 1.					76-108
1039	HFPKI70	882564	1049	107 -	2454	Arg-24 to His-31,	AR096: 2, AR055: 1, AR053: 1, AR089: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR033: 0 T0006: 2, L0439: 2, L0750: 2, L0785: 1, S0360: 1, S0222: 1, H0586: 1, L0622: 1, H0620: 1, H0024: 1, H0594: 1, H0606: 1, L0770: 1, L0771: 1, L0794: 1, L0649: 1, L0805: 1, L0653: 1, L0659: 1, L0791: 1, L0666: 1, L0753: 1 and L0758: 1.					29-50, 63-

1040	HDRMD17	882582	1050	475	Leu-56 to Leu-64, Ser-96 to Lys-102, Leu-114 to His-123.	AR089: 7, AR053: 6, AR060: 5, AR052: 5, AR033: 5, AR061: 5, AR104: 4, AR039: 1 H0457: 2, S0222: 1, H0587: 1, H0013: 1, S0010: 1, H0373: 1 and H0521: 1.			81
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1041	HEMDM1 6	882648	1051	15 - 677	Phe-10 to Lys-15.	AR089: 18, AR096: 17, AR060: 16, AR104: 13, AR033: 13, AR039: 12, AR052: 11, AR053: 9, AR055: 7, AR061: 5 L0759: 8, L0731: 7, H0521: 5, L0005: 4, S0358: 3, L0157: 3, L0757: 3, S0046: 2, H0494: 2, L0662: 2, L0740: 2, L0755: 2, H0657: 1, H0341: 1, H0663: 1, H0638: 1, S0376: 1, S0132: 1, H0549: 1, H0586: 1, H0590: 1, H0024: 1, H0071: 1, H0083: 1, H0252: 1, H0090: 1, H0591: 1,			162-178

1042	HODGL52	882663	1052	62 - 517	2457	Ser-120 to Ala-125, Glu-143 to Tyr-152.	<p>H0551: 1, H0059: 1, H0529: 1, L0389: 1, L0775: 1, L0776: 1, L0783: 1, L0665: 1, L0438: 1, H0547: 1, H0435: 1, S0378: 1, S0037: 1, L0439: 1, S0434: 1, L0596: 1, L0592: 1, L0604: 1, H0667: 1, H0543: 1 and H0422: 1.</p> <p>AR089: 13, AR055: 11, AR060: 9, AR096: 8, AR033: 7, AR061: 7, AR053: 5, AR052: 5, AR039: 5, AR104: 2, H0046: 6, L0770: 6, H0402: 5, L0749: 5, L0731: 5, S0358: 4, L0771: 4, L0740: 4, H0617: 3, L0769: 3, L0783: 3, H0670: 3, L0747: 3, S0192: 3, S0476: 2, H0549: 2, H0581: 2, H0271: 2, H0328: 2, L0772: 2, L0532: 2, L0663: 2, L0438: 2, H0684: 2, H0539: 2, L0748: 2, L0439: 2, L0750: 2, L0757: 2, H0624: 1, L0785: 1, H0580: 1, S0046: 1, S0132: 1, H0351: 1, H0370: 1, H0455: 1, H0299: 1, H0586: 1, H0331: 1.</p>					52-76, 86-106, 9-25, 29-45
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1043	HSLGA24	882690	1053	83 - 490	2458	Pro-7 to Arg-12, Glu-18 to Ser-24, Ser-32 to Glu-38, Asp-103 to Arg-111.	1, H0485: 1, H0486: 1, T0082: 1, H0618: 1, H0253: 1, H0544: 1, H0546: 1, H0545: 1, H0620: 1, H0083: 1, H0266: 1, H0252: 1, H0615: 1, H0598: 1, H0163: 1, H0038: 1, H0040: 1, H0551: 1, H0059: 1, L0639: 1, L0667: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0526: 1, L0809: 1, L0543: 1, L0647: 1, L0666: 1, L0665: 1, S0216: 1, S0374: 1, H0547: 1, H0519: 1, H0711: 1, H0658: 1, H0660: 1, S0152: 1, S0350: 1, H0696: 1, S0044: 1, S0406: 1, H0436: 1, S0037: 1, S0028: 1, L0743: 1, L0744: 1, L0759: 1 and S0436: 1.			
1044	HMHBT84	882784	1054	406 - 948	2459	Met-1 to Leu-6, Pro-13 to Ala-18,	AR089: 13, AR096: 9, AR052: 7, AR053: 5, AR060: 5, AR033: 5, AR039: 4, AR104: 4, AR055: 3, AR061: 2 S0028: 1			112-136, 42-62
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1045	HHEDW60	882799	1055	107 - 433	2460	H0052: 1, H0309: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, L0183: 1, H0687: 1, H0286: 1, H0328: 1, L0483: 1, L0053: 1, H0628: 1, H0169: 1, H0674: 1, S0366: 1, H0038: 1, H0634: 1, H0488: 1, H0268: 1, T0041: 1, T0042: 1, H0494: 1, S0014: 1, H0625: 1, H0509: 1, H0641: 1, S0002: 1, H0529: 1, L0637: 1, L0646: 1, L0773: 1, L0662: 1, L0768: 1, L0652: 1, L0776: 1, L0659: 1, L0783: 1, S0374: 1, H0593: 1, S0126: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S3012: 1, S3014: 1, S0028: 1, L0754: 1, L0750: 1, L0731: 1, S0260: 1, S0436: 1, L0596: 1, L0581: 1, S0242: 1, S0194: 1, H0543: 1, H0506: 1 and H0008: 1, AR039: 39, AR053: 30, AR052: 26, AR033: 23, AR096: 21, AR104: 21, AR089: 17, AR060: 15, AR055: 13, AR061: 10, L0777: 7, L0747: 5.	58-75
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1047	HARMS29	882813	1057	100 - 423	2462	Pro-29 to Pro-41.	H0038: 1, H0634: 1, H0551: 1, S0038: 1, H0633: 1, H0652: 1, S0428: 1, H0144: 1, H0666: 1, S0028: 1, L0749: 1, H0445: 1, L0596: 1, L0591: 1, L0608: 1 and H0667: 1.				53-74, 1-17
1048	HAMHH25	882839	1058	123 - 569	2463	Thr-12 to Ser-18, Gly-88 to Leu-93, Gly-131 to Gln-144.	AR096: 4, AR053: 3, AR039: 2, AR055: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 2, AR052: 1, AR104: 1, H0592: 1, T0048: 1, L0770: 1 and L0756: 1.				53-69
1049	HLCLA47	882849	1059	138 - 662	2464		AR039: 2, AR060: 1, AR096: 1, AR089: 1, AR053: 1, AR061: 1, AR104: 0, AR055: 0, AR039: 0, H0717: 3, H0624: 2, S0140: 2, H0050: 2, H0622: 2, H0551: 2, H0520: 2, S0001: 1, H0662: 1, S0418: 1				66-93, 40-59, 101-119

1050	HDP006	882888	1060	76 - 1269	2465	Met-1 to Glu-6, Leu-36 to Arg-41, Leu-62 to Gly-67, Lys-115 to Tyr-129, Asn-151 to Asp-156, Ala-178 to His-185, Pro-215 to Met-220, Lys-232 to Asn-238, Glu-261 to Pro-266, Asn-277 to Ser-284, Asn-314 to Lys-319, Asp-367 to Lys-377, Lys-391 to His-398.	AR053: 1, AR104: 1, AR033: 1, AR061: 0, AR089: 0, AR096: 0, AR039: 0, AR060: 0, AR052: 0 H0521: 6, H0553: 3, S0040: 1, H0661: 1, H0580: 1, S0222: 1, H0392: 1, H0586: 1, H0486: 1, H0184: 1, H0510: 1, H0428: 1, H0100: 1, H0130: 1, S0002: 1, S0426: 1, H0529: 1, H0520: 1, S0126: 1, L0748: 1, L0740: 1, L0754: 1, L0758: 1, H0667: 1 and H0542: 1.	1, H0580: 1, H0619: 1, L0467: 1, H0549: 1, T0039: 1, H0427: 1, H0575: 1, H0581: 1, H0597: 1, H0546: 1, T0010: 1, H0179: 1, H0286: 1, S0338: 1, H0615: 1, H0628: 1, H0063: 1, H0647: 1, H0649: 1, H0555: 1, S3012: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0759: 1, L0593: 1 and H0543: 1.					71-95, 95- 111
1051	HEXKG51	882935	1061	559 -	2466	His-10 to Asn-21.	AR096: 4, AR053: 3, H0542: 1.					94-116,	

1052	HE9PQ22	882969	1062	138 - 476	2467		Pro-144 to Asn-154, Gln-161 to Glu-166.	AR052: 3, AR089: 2, AR060: 2, AR033: 2, AR039: 1, AR055: 1, AR104: 1, AR061: 1 S0028: 2 and S0282: 1.			37-53, 113-130, 66-82
	HE9PQ22	882969	1062	138 - 476	2467			AR053: 24, AR033: 23, AR052: 22, AR055: 22, AR061: 18, AR089: 18, AR060: 12, AR039: 10, AR096: 10, AR104: 7 L0157: 7, L0750: 4, H0295: 2, H0341: 2, S0420: 2, T0109: 2, L0769: 2, L0774: 2, L0777: 2, S0046: 1, S0278: 1, H0549: 1, H0081: 1, H0124: 1, H0560: 1, L0772: 1, L0662: 1, L0768: 1, L0775: 1, L0655: 1, L0518: 1, L0791: 1, H0144: 1, H0651: 1, H0696: 1, H0187: 1, L0754: 1, L0755: 1 and H0422: 1.			94-113, 64-80, 10- 26
1053	HELEL31	882980	1063	115 - 495	2468	Met-1 to Leu-6, Leu-56 to Trp-67.		AR089: 15, AR052: 14, AR096: 13, AR060: 12, AR033: 12, AR039: 11, AR055: 10, AR104: 10, AR053: 9, AR061: 4 L0438: 3, L0751: 3, L0747: 3, L0757: 3, H0251:	1q24	107300, 131210, 136132, 145001, 173610, 601518, 601652	66-93, 29- 47

1054	HTLGQ83	882989	1064	814 - 2	2469	Pro-10 to Ser-16, Asp-31 to Met-43, Ala-113 to Arg-118.	2, L0771: 2, L0439: 2, L0754: 2, L0758: 2, H0381: 1, H0341: 1, S0360: 1, H0675: 1, S0045: 1, T0048: 1, H0545: 1, H0178: 1, H0562: 1, S0051: 1, H0428: 1, H0135: 1, H0087: 1, H0494: 1, L0764: 1, L0773: 1, L0768: 1, L0805: 1, L0776: 1, L0659: 1, S0380: 1, L0743: 1, L0744: 1, L0591: 1, L0592: 1, L0599: 1, L0595: 1 and L0600: 1.				237-253, 66-82, 196-212, 119-135
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1055	HETJU23	883007	1065	518 - 1120	2470		1, L0608: 1, H0665: 1, H0423: 1, H0422: 1 and S0412: 1. AR055: 9, AR061: 8, AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR039: 2, AR096: 1, AR104: 1 L0749: 5, L0794: 3, H0658: 3, L0777: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0438: 2, H0556: 1, H0329: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L5566: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0650: 1, L0776: 1, L0367: 1, L0665: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1, L0747: 1 and L0759: 1. AR089: 4, AR055: 4, AR033: 4, AR052: 4, AR096: 3, AR060: 3, AR053: 3, AR061: 3, AR039: 0, AR104: 0 S0114: 1, H0376: 1,				159-175, 59-75, 31- 47, 80-96
1056	HNGKB25	883012	1066	140 - 508	2471		54-74, 10- 26, 33-49, 80-96				

1057	HADAM67	883039	1067	86 - 634	2472	Ser-50 to Ser-57, Thr-73 to Leu-91, Pro-101 to Ser-110, Glu-116 to Phe-126.	S0428: 1 and L0748: 1. AR055: 8, AR089: 7, AR096: 7, AR053: 7, AR060: 6, AR033: 6, AR039: 5, AR104: 4, AR052: 3, AR061: 2 L0731: 9, L0803: 8, L0749: 8, L0748: 5, L0439: 5, L0756: 4, L0759: 4, H0581: 3, L0766: 3, L0747: 3, H0013: 2, H0427: 2, H0052: 2, H0251: 2, H0050: 2, L0794: 2, L0789: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0134: 1, S0442: 1, S0358: 1, H0411: 1, H0261: 1, H0431: 1, H0455: 1, H0574: 1, H0486: 1, S0010: 1, H0439: 1, H0569: 1, H0014: 1, H0375: 1, H0124: 1, S0036: 1, H0038: 1, S0210: 1, L0371: 1, L0521: 1, L0774: 1, L0809: 1, S0374: 1, L0438: 1, H0696: 1, S0044: 1, H0436: 1, S0390: 1, L0750: 1, L0752: 1, S0276: 1, H0543: 1 and H0423: 1.				127-155
1058	HDQPJ82	883055	1068	103 -	2473	Ala-15 to Gln-20,	AR039: 4, AR096: 3,				26-45, 59-

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1059	HHFFX31	883056	1069	125 - 583	Ala-15 to Gln-20.	AR055: 12, AR033: 10, AR052: 8, AR089: 8, AR104: 7, AR060: 7, AR061: 6, AR096: 6, AR053: 6, AR039: 4 L0748: 21, L0769: 6, L0743: 5, L0756: 5, H0556: 4, L0662: 4, L0664: 4, S0360: 3, H0529: 3, L0659: 3, L0666: 3, L0740: 3, L0751: 3, L0747: 3, L0755: 3, L0596: 3, S0278: 2,			26-45, 65- 83, 108- 124, 136- 152

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1060	HHESF39	883067	1070	13 - 681	2475		H0543: 1 and H0423: 1. AR033: 2, AR089: 2, AR096: 1, AR039: 1, AR060: 1, AR052: 1, AR061: 1, AR055: 0, AR053: 0, AR104: 0 H0457: 6, L0770: 4, L0775: 3, L0747: 3, L0662: 2, L0663: 2, H0521: 2, L0751: 2, L0731: 2, L0758: 2, H0445: 2, T0002: 1, H0657: 1, H0255: 1, H0402: 1, H0638: 1, S0408: 1, H0619: 1, S0222: 1, H0370: 1, H0333: 1, H0101: 1, H0575: 1, H0052: 1, H0546: 1, H0563: 1, H0050: 1, H0620: 1, S0051: 1, H0622: 1, H0644: 1, H0617: 1, H0606: 1, H0077: 1, S0002: 1, L0638: 1, L0796: 1, L0761: 1, L0646: 1, L0764: 1, L0794: 1, L0766: 1, L0806: 1, L0657: 1, L0665: 1, H0593: 1, H0670: 1, S0328: 1, H0539: 1, H0522: 1, H0696: 1, H0555: 1, S3012: 1, L0741: 1, L0439: 1, L0779: 1, L0780: 1, L0603: 1 and H0543: 1.			69-93, 174-198, 45-67, 1- 17, 144- 160
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1061	HTLHB93	883085	1071	8 - 343	2476	Ser-10 to Leu-18.	AR096: 2, AR055: 1, AR061: 1, AR060: 1, AR033: 1, AR089: 1, AR039: 0, AR052: 0, AR053: 0, AR104: 0 H0618: 1 and L0758: 1.			60-101, 19-44, 79- 101
1062	HDTJA78	883094	1072	26 - 553	2477	Pro-3 to Ser-9, Thr-71 to Lys-79, Ala-132 to Gly-139, Asn-144 to Leu-152.	AR096: 1, AR089: 1, AR055: 1, AR033: 1, AR061: 1, AR053: 0, AR039: 0, AR052: 0, AR060: 0, AR104: 0 L0764: 5, L0742: 4, L0439: 3, L0740: 3, L0747: 3, L0755: 3, S0408: 2, H0486: 2, H0581: 2, L0794: 2, L0809: 2, H0672: 2, L0748: 2, L0750: 2, H0686: 1, H0393: 1, H0178: 1, H0620: 1, H0212: 1, T0067: 1, L0769: 1, L0637: 1, L0644: 1, L0766: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0655: 1, L0783: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, L0749: 1, L0752: 1, L0758: 1, L0759: 1 and H0343: 1.			43-70, 25- 43, 104- 121, 85- 101
1063	HNGPL75	883101	1073	197 -	2478	Met-1 to Pro-7.	AR055: 8, AR060: 6,			46-65, 76-

1064	HNTDV93	883131	1074	37 - 978	2479	Cys-9 to Asp-15.	AR033: 5, AR061: 4, AR052: 4, AR096: 4, AR053: 4, AR089: 3, AR104: 2, AR039: 2 L0766: 1, S0428: 1 and L0592: 1.				92
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1065	HNSMB73	883132	1075	73 - 444	2480		AR039: 39, AR033: 17, AR104: 15, AR053: 15, AR052: 15, AR089: 13, AR096: 12, AR055: 11, AR060: 10, AR061: 6 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.			94-112, 64-82, 7- 25, 31-47
1066	HTLGL03	883142	1076	301 - 951	2481	Ser-117 to Ser-123, Gly-141 to Tyr-150.	AR055: 8, AR089: 4, AR033: 4, AR060: 4, AR061: 4, AR053: 4, AR052: 4, AR039: 4, AR096: 3, AR104: 2 L0439: 10, L0747: 10, L0794: 8, L0754: 8, L0731: 7, H0046: 6, L0759: 6, L0771: 5, L0773: 5, L0809:			188-213, 62-78

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1067	HGBCN41	883149	1077	436 - 876	2482	Glu-2 to Phe-18, Pro-20 to Leu-27.	1, L0804: 1, L0775: 1, L0806: 1, L0659: 1, L0529: 1, L0663: 1, S0428: 1, H0689: 1, H0670: 1, H0648: 1, S0380: 1, L0749: 1, L0750: 1, L0756: 1, L0755: 1, L0758: 1, S0434: 1, S0194: 1 and H0423: 1.					36-55, 59- 75
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								S0027: 1, L0439: 1, L0747: 1, L0750: 1, L0779: 1, L0780: 1, L0731: 1, S0276: 1 and H0352: 1.					9-32, 34-58
1068	HWMBU8 9	883172	1078	149 - 652	2483			AR052: 10, AR053: 8, AR033: 7, AR055: 7, AR089: 7, AR039: 7, AR060: 6, AR096: 5, AR104: 4, AR061: 4, L0771: 3, L0803: 3, L0748: 3, L0754: 3, S0376: 2, H0658: 2, L0743: 2, L0747: 2, L0777: 2, L0755: 2, H0707: 2, L0591: 2, H0686: 1, H0685: 1, S0358: 1, H0356: 1, H0494: 1, S0440: 1, H0641: 1, L0800: 1, L0774: 1, L0789: 1, H0684: 1, L0749: 1, L0601: 1 and L0603: 1.					
1069	HSEBA38	883175	1079	41 - 991	2484	Met-1 to Phe-10, Ala-76 to Asn-82, Gln-274 to Glu-280, Gln-288 to Arg-296.		AR053: 15, AR033: 12, AR052: 10, AR096: 10, AR060: 9, AR089: 8, AR104: 5, AR061: 5, AR039: 4, AR055: 3, L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634: 3	22q11.2-qter				82-99, 208-224, 134-150, 228-244

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1070	HEEAX26	883176	1080	281 - 1666	2485	Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Ser-114.	1, L0362: 1, S0011: 1, S0026: 1 and H0506: 1. AR096: 148, AR052: 102, AR089: 99, AR060: 78, AR053: 69, AR104: 35, AR039: 34, AR033: 33, AR061: 29, AR055: 11 L0748: 12, H0436: 4, H0265: 3, H0556: 3, S0116: 3, H0581: 3, H0050: 3, H0199: 3, H0038: 3, H0634: 3, H0623: 3, H0641: 3, H0521: 3, L0747: 3, H0543: 3, S0040: 2, H0580: 2, H0592: 2, H0618: 2, S0474: 2, H0421: 2, H0510: 2, H0644: 2, T0041: 2, L0439: 2, L0754: 2, L0759: 2, S0031: 2, H0136: 2, H0583: 1, H0656: 1, H0255: 1, S0356: 1, S0376: 1, H0393: 1, H0351: 1, H0549: 1, H0431: 1, H0392: 1, H0409: 1, H0642: 1, H0559: 1, T0109: 1, H0013: 1, H0069: 1, H0635: 1, H0253: 1, H0318: 1, H0123: 1, H0047: 1, H0197: 1, H0024: 1, S0051: 1, H0687: 1, H0290: 1, S0250: 1, H0328: 1,				257-274, 196-213, 61-77, 282-298
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1071	HSXCV48	883211	1081	352 - 690	2486	Arg-63 to Arg-71.	H0031: 1, H0068: 1, H0376: 1, S0036: 1, H0163: 1, H0591: 1, H0040: 1, H0616: 1, H0551: 1, H0413: 1, H0560: 1, S0144: 1, H0529: 1, L0638: 1, H0144: 1, H0703: 1, H0547: 1, S0126: 1, S0328: 1, H0539: 1, H0522: 1, S014: 1, L0745: 1, L0750: 1, L0756: 1, L0752: 1, L0731: 1, L0591: 1, L0362: 1, S0011: 1, S0026: 1 and H0506: 1.							1-22, 30-53, 70-92
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1072	HTLAG19	883219	1082	107 - 1120	2487	Met-1 to Leu-6, Phe-48 to Gly-54, Cys-99 to Arg-104, Pro-258 to Ser-263, Arg-303 to Thr-309.	L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1, AR033: 7, AR055: 5, AR061: 4, AR060: 3, AR089: 3, AR053: 3, AR052: 3, AR096: 3, AR039: 2, AR104: 2 H0253: 11, L0439: 6, L0794: 5, L0809: 5, L0758: 4, H0618: 3, L0766: 3, L0803: 3, H0393: 2, L0783: 2, L0438: 2, H0341: 1, S0420: 1, S0358: 1, H0730: 1, S0474: 1, S0362: 1, H0510: 1, H0181: 1, L0769: 1, L0542: 1, L0789: 1, H0187: 1, L0743: 1, L0779: 1 and L0777: 1.				189-212, 5-21
1073	HISBV17	883238	1083	10 - 594	2488		AR052: 4, AR053: 4, AR033: 3, AR039: 2, AR104: 2, AR089: 1, AR055: 1, AR061: 1, AR060: 1, AR096: 1				126-154, 169-190, 57-73, 87- 103, 2-18
1074	HFKLN07	883248	1084	700 - 1323	2489	Arg-22 to Asn-32, Arg-59 to Phe-83, Glu-197 to Asp-203.	AR039: 26, AR104: 13, AR096: 12, AR033: 12, AR055: 12, AR053: 12,				120-138, 160-177

1075	HTLID36	883250	1085	22 - 420	2490	Thr-3 to Thr-11,	AR089: 11, AR052: 11, AR060: 9, AR061: 8 L0439: 7, H0620: 5, L0764: 4, H0424: 3, H0617: 3, L0659: 3, H0543: 3, H0333: 2, H0069: 2, H0618: 2, L0666: 2, L0438: 2, L0747: 2, L0756: 2, L0777: 2, L0757: 2, H0341: 1, H0661: 1, H0638: 1, S0222: 1, H0492: 1, H0270: 1, H0599: 1, H0036: 1, H0253: 1, H0318: 1, S0049: 1, H0052: 1, H0545: 1, H0023: 1, H0266: 1, S0250: 1, H0040: 1, H0623: 1, H0100: 1, T0042: 1, H0641: 1, S0002: 1, H0695: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, H0519: 1, H0682: 1, H0435: 1, H0658: 1, H0521: 1, H0436: 1, H0631: 1, L0779: 1, L0758: 1, L0593: 1, L0595: 1, L0601: 1, H0665: 1, H0667: 1, H0542: 1, H0423: 1, H0677: 1 and S0446: 1.				
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1076	HSLHV27	883287	1086	127 - 960	2491	Pro-51 to Gly-58.	AR053: 9, AR033: 8, AR089: 7, AR052: 7, AR060: 7, AR061: 5, AR096: 5, AR104: 4 H0618: 1 and H0038: 1. AR060: 3, AR061: 1, AR033: 1, AR039: 1, AR104: 1, AR055: 1, AR096: 1, AR089: 1, AR053: 0, AR052: 0 S0028: 1				114-143, 255-278, 154-179, 34-61, 2- 21, 85- 101, 66- 82, 233- 249, 208- 224
1077	HSLJG70	883295	1087	193 - 819	2492		AR089: 3, AR039: 3, AR060: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1, AR033: 1, AR104: 1 H0550: i and S0390: 1.				121-145, 143-166, 53-75, 2- 28, 26-46, 94-110, 171-187
1078	HSFAK30	883301	1088	300 - 1052	2493	Thr-97 to Ile-105, Phe-111 to Tyr-116, Gly-139 to Thr-147, Leu-155 to Tyr-161, Thr-177 to Gln-189.	AR089: 14, AR053: 10, AR055: 9, AR033: 9, AR060: 9, AR052: 8, AR096: 7, AR061: 6, AR039: 4, AR104: 3 L0749: 4, L0770: 2, H0254: 1, H0662: 1, L0534: 1, L0562: 1, S0442: 1, H0154: 1, S0002: 1, L0385:				197-226, 10-26

1079	HTTBM62	883307	1089	15 - 1493	2494		1, H0134: 1 and L0748: 1. AR061: 9, AR055: 8, AR033: 4, AR052: 4, AR060: 4, AR089: 3, AR053: 3, AR104: 2, AR096: 2, AR039: 1 H0046: 6, L0717: 2, L0770: 2, L0769: 2, L0666: 2, H0265: 1, H0556: 1, S0342: 1, H0346: 1, H0459: 1, S0418: 1, L0103: 1, S0300: 1, H0600: 1, H0587: 1, H0642: 1, H0331: 1, H0486: 1, H0069: 1, H0421: 1, H0597: 1, H0083: 1, L0052: 1, H0673: 1, H0040: 1, H0272: 1, H0529: 1, L0637: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, H0547: 1, H0519: 1, H0593: 1, H0683: 1, S0378: 1, S0406: 1, H0555: 1, L0741: 1, L0747: 1, L0753: 1, S0031: 1, L0604: 1, S0011: 1 and S0424: 1.		262-282, 100-116, 75-91
1080	HFCDT23	883327	1090	74 - 394	2495		AR053: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 3, AR055: 3, AR033: 3, AR104: 3,		75-107, 42-62, 1- 18, 21-37, 66-82

1081	HDPGU86	883328	1091	400 - 789	2496			AR061: 2, AR039: 0 S0152: 3, H0009: 2, H0135: 2, H0547: 2, L0439: 2, S0418: 1, S0354: 1, H0620: 1, H0264: 1, L0558: 1, H0519: 1, H0435: 1, H0539: 1, H0521: 1, L0751: 1, S0436: 1, S0192: 1 and H0506: 1.				32-65, 1-19, 23-39
								AR096: 5, AR039: 4, AR104: 3, AR053: 3, AR052: 3, AR089: 2, AR055: 2, AR033: 2, AR061: 2, AR060: 1 L0766: 5, S0418: 4, H0135: 3, H0144: 3, S0152: 3, L0439: 3, L0777: 3, L0758: 3, H0009: 2, L0769: 2, L0771: 2, L0378: 2, L0663: 2, H0547: 2, L0740: 2, L0751: 2, S0436: 2, L0485: 2, H0556: 1, S0134: 1, H0657: 1, H0484: 1, S0420: 1, S0354: 1, L0717: 1, S0222: 1, H0270: 1, T0039: 1, L0021: 1, H0263: 1, H0620: 1, H0266: 1, H0687: 1, H0252: 1, H0604: 1, H0628: 1, H0617: 1, H0606: 1, H0264: 1, H0100:				

1082	H2CBE07	883335	1092	598 - 1317	2497	Lys-219 to Asn-232, Pro-235 to Ala-240.	1, H0560: 1, H0561: 1, L0796: 1, L0639: 1, L0646: 1, L0764: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0558: 1, L0783: 1, L0383: 1, L0519: 1, L0789: 1, L0793: 1, L0666: 1, L0438: 1, H0519: 1, H0435: 1, S0328: 1, H0539: 1, H0521: 1, H0696: 1, H0134: 1, L0747: 1, L0779: 1, L0752: 1, L0731: 1, L0593: 1, H0665: 1, S0192: 1 and H0506: 1.				196-219, 66-85, 25- 47, 148- 166, 121- 138, 166- 182
							AR104: 1, AR053: 1, AR089: 1, AR061: 1, AR060: 0, AR055: 0, AR052: 0, AR033: 0, AR096: 0, AR039: 0 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2,				

1083	HFIHS04	883358	1093	42 - 755	2498	Pro-30 to Ser-38, Gly-69 to Leu-79, Thr-147 to Gly-158, Tyr-220 to Glu-238.	L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.				84-112, 39-66, 196-212, 157-175, 5-21
						AR096: 7, AR089: 4, AR061: 4, AR060: 3, AR033: 3, AR052: 3, AR104: 3, AR039: 2, AR055: 1, AR053: 1 L0748: 5, S0276: 3, S0410: 2, H0012: 2, H0024: 2,					

1084	HTXLP33	883359	1094	67 - 486	2499	Gln-55 to Asn-65.	H0521: 2, L0439: 2, H0662: 1, S0420: 1, S0358: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, H0090: 1, S0438: 1, H0509: 1, L0518: 1, H0539: 1, S0434: 1, S0242: 1 and S0194: 1.				
							AR055: 7, AR053: 7, AR052: 6, AR033: 5, AR096: 4, AR039: 4, AR089: 4, AR061: 4, AR060: 3, AR104: 2, S0328: 4, H0556: 3, L0438: 2, L0742: 2, L0777: 2, H0170: 1, H0083: 1, H0598: 1, H0616: 1, L0770: 1, L0766: 1, L0655: 1, L0779: 1, H0445: 1 and L0608: 1.				110-129
1085	HMEKG76	883364	1095	265 - 1125	2500	Glu-2 to Arg-10, Lys-18 to Lys-28, His-76 to Gly-84, Ser-101 to Gln-116, Asp-194 to Glu-199, Pro-239 to Ala-245, Asp-257 to Ser-272.	AR033: 7, AR055: 5, AR052: 5, AR053: 5, AR089: 4, AR060: 4, AR061: 3, AR096: 3, AR104: 3, AR039: 0, H0618: 6, L0769: 5, L0794: 5, L0439: 5, L0747: 5, L0766: 4, L0803: 4, S3014: 4, L0748: 4, L0758:				123-139, 152-168

					4, H0615: 3, H0038: 3, L0805: 3, L0438: 3, H0521: 3, H0341: 2, S0278: 2, H0574: 2, H0599: 2, H0253: 2, S0474: 2, H0196: 2, L0471: 2, H0266: 2, T0006: 2, H0708: 2, H0135: 2, H0616: 2, L0659: 2, H0660: 2, L0740: 2, L0756: 2, L0779: 2, L0731: 2, L0759: 2, L0785: 1, S0116: 1, H0671: 1, H0661: 1, S0442: 1, S0360: 1, H0733: 1, H0549: 1, H0431: 1, S0280: 1, H0569: 1, H0123: 1, H0050: 1, H0630: 1, H0375: 1, S0318: 1, H0644: 1, H0163: 1, H0090: 1, H0380: 1, H0131: 1, S0344: 1, S0422: 1, S0426: 1, L0369: 1, L0662: 1, L0363: 1, L0768: 1, L0653: 1, L0655: 1, L0809: 1, L0789: 1, L0665: 1, H0519: 1, H0689: 1, H0684: 1, H0522: 1, H0436: 1, S3012: 1, S0027: 1, S0028: 1, L0753: 1, S0436: 1, L0361: 1, H0653: 1, H0543: 1, H0423: 1, S0424: 1 and H0506: 1.
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1086	HTENG02	883375	1096	110 - 607	2501	Tyr-92 to Glu-97.	AR055: 7, AR061: 5, AR033: 4, AR060: 4, AR052: 3, AR089: 3, AR053: 3, AR096: 3, AR104: 1, AR039: 1 H0009: 2, H0031: 2, L0596: 2, H0295: 1, H0341: 1, H0483: 1, S0358: 1, S0410: 1, H0497: 1, H0616: 1, S0440: 1, L0800: 1, L0794: 1, L0649: 1, L0803: 1, L0657: 1, L0791: 1, S0152: 1, L0779: 1, S0436: 1 and H0542: 1.			32-64, 71- 89, 98-115
1087	HTOAW80	883376	1097	285 - 1244	2502	Asn-82 to Tyr-87.	AR053: 9, AR096: 7, AR052: 7, AR089: 5, AR055: 4, AR039: 3, AR060: 3, AR104: 3, AR033: 2, AR061: 2 H0506: 4, S0434: 2 and H0264: 1.			13-46, 245-273, 50-73, 205-234, 180-199, 98-114
1088	HAIW57	883401	1098	47 - 1036	2503	Arg-6 to Gly-28, Lys-35 to His-47, Glu-50 to Lys-63, Leu-65 to Asn-86, Arg-93 to Asn-109, Ser-116 to Asp-136.	AR096: 13, AR033: 12, AR052: 11, AR053: 11, AR089: 10, AR104: 10, AR060: 7, AR039: 4, AR055: 2, AR061: 2 L0754: 15, L0748: 14, L0439: 9, H0543: 9, L0766: 7, L0747: 7, L0779: 7,			238-258, 262-280

L0770: 6, L0771: 6, L0745: 6, L0758: 6, S0408: 5, L0665: 5, L0438: 5, L0749: 5, H0423: 5, S0474: 4, H0014: 4, H0038: 4, L0659: 4, H0436: 4, L0777: 4, L0731: 4, H0445: 4, L0362: 4, H0657: 3, S0116: 3, S0360: 3, S0222: 3, H0486: 3, H0052: 3, H0046: 3, L0483: 3, L0142: 3, H0551: 3, S0440: 3, S0002: 3, L0369: 3, L0803: 3, L0805: 3, L0776: 3, L0655: 3, L0527: 3, L0666: 3, S0374: 3, S0126: 3, H0710: 3, S0028: 3, L0740: 3, L0750: 3, L0589: 3, L0599: 3, L0415: 2, H0661: 2, H0306: 2, S0354: 2, S0358: 2, S0476: 2, H0619: 2, H0574: 2, H0013: 2, S0346: 2, S0003: 2, H0039: 2, H0674: 2, H0090: 2, L0564: 2, S0422: 2, L0769: 2, L0662: 2, L0775: 2, L0653: 2, H0144: 2, H0547: 2, S0328: 2, L0602: 2, H0521: 2, H0696: 2, S0406: 2, S3014: 2, L0759: 2, H0595: 2,
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S0436: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0581: 2, H0395: 1, H0556: 1, H0685: 1, H0713: 1, H0717: 1, H0716: 1, S0134: 1, H0583: 1, H0650: 1, H0656: 1, L0785: 1, H0341: 1, S0282: 1, H0346: 1, H0664: 1, H0662: 1, H0402: 1, H0305: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0376: 1, H0580: 1, S0046: 1, H0393: 1, S6016: 1, H0455: 1, H0586: 1, H0587: 1, H0497: 1, T0040: 1, H0427: 1, S0280: 1, H0156: 1, L0021: 1, S0010: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0596: 1, H0546: 1, H0009: 1, H0572: 1, L0471: 1, S0388: 1, T0010: 1, H0083: 1, H0630: 1, H0375: 1, S0250: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, H0213: 1, H0031: 1, H0553: 1, H0628: 1, H0673: 1, H0400: 1, S0036: 1, H0163: 1, H0616: 1, T0041: 1, H0561: 1, S0382: 1,
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1089	HTEHF89	883419	1099	698 - 3	2504	Pro-35 to Cys-46, Pro-48 to Glu-54, Tyr-79 to Ser-85.	AR096: 1, AR104: 1, AR060: 1, AR033: 1, AR055: 1, AR089: 1, AR039: 0, AR053: 0, AR061: 0, AR052: 0 H0046: 9, H0038: 2, H0170: 1, H0455: 1, H0486: 1, H0013: 1, S0010: 1,	S0306: 1, S0438: 1, H0509: 1, S0344: 1, H0538: 1, H0529: 1, L0506: 1, L0371: 1, L0637: 1, L0667: 1, L0630: 1, L0764: 1, L0773: 1, L0768: 1, L0364: 1, L5574: 1, L0804: 1, L0774: 1, L0784: 1, L0378: 1, L0806: 1, L0606: 1, L0809: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, S0216: 1, H0435: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0522: 1, S0146: 1, S0027: 1, S0032: 1, L0741: 1, L0744: 1, L0751: 1, L0752: 1, L0753: 1, L0755: 1, L0757: 1, S0031: 1, L0608: 1, L0361: 1, S0026: 1, H0665: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1, L0462: 1 and H0352: 1.					148-180, 90-109, 191-207, 58-76
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1090	HSYBB84	883420	1100	88 - 567	2505	Pro-29 to Cys-40, Pro-42 to Glu-48, Tyr-73 to Ser-79.	H0052: 1, H0327: 1, S6028: 1, S0214: 1, H0328: 1, H0040: 1, H0551: 1, H0268: 1, H0560: 1, H0520: 1 and H0519: 1. AR096: 7, AR033: 5, AR052: 5, AR089: 5, AR060: 4, AR104: 4, AR039: 4, AR053: 4, AR061: 1, AR055: 1 L0439: 11, H0046: 9, L0766: 6, L0777: 5, L0759: 5, L0438: 4, L0740: 4, H0486: 3, L0659: 3, H0539: 3, L0750: 3, S0358: 2, S6028: 2, H0688: 2, H0553: 2, H0038: 2, H0551: 2, L0666: 2, H0547: 2, L0752: 2, L0758: 2, S0434: 2, H0170: 1, H0740: 1, H0638: 1, S0444: 1, S0360: 1, H0455: 1, H0013: 1, H0156: 1, H0575: 1, S0010: 1, H0052: 1, H0327: 1, S0250: 1, S0214: 1, H0328: 1, H0428: 1, H0040: 1, H0268: 1, L0435: 1, H0560: 1, S0352: 1, L0769: 1, L0646: 1, L0662: 1, L0774: 1, L0775: 1, L0776: 1, L0655:					84-103, 52-70
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1091	HTJMD30	883430	1101	135 - 632	2506	Asn-6 to Gln-38, Gly-41 to Arg-49, Gln-57 to Gln-65, Gln-68 to Thr-74, Ala-76 to Leu-92.	1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, H0659: 1, S0330: 1, S0406: 1, S0028: 1, L0749: 1, L0753: 1, H0668: 1, S0026: 1 and H0667: 1.					126-143, 148-164
							AR052: 2, AR061: 1, AR089: 1, AR104: 1, AR053: 1, AR033: 1, AR060: 1, AR096: 0, AR055: 0, AR039: 0 H0494: 4, H0521: 3, S3014: 3, S0354: 2, S0476: 2, H0083: 2, H0252: 2, H0644: 2, S0126: 2, S0152: 2, S0027: 2, S0028: 2, S0011: 2, H0543: 2, H0556: 1, S0040: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, H0580: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, H0497: 1, T0040: 1, T0114: 1, H0156: 1, H0097: 1, H0599: 1, H0024: 1, H0051: 1, H0355: 1, H0266: 1, H0031: 1, H0163: 1, H0634: 1, H0551: 1, H0264: 1, H0488: 1, H0268: 1, H0412: 1, H0056: 1, H0623:					

1092	HELF05	883434	1102	1721 - 1296	2507	Pro-2 to Glu-8, Thr-26 to Asp-32, Pro-70 to Arg-77, Ser-89 to Thr-95.	1, H0561: 1, H0547: 1, H0519: 1, H0593: 1, H0539: 1, H0134: 1, H0436: 1, S3012: 1, H0445: 1, L0593: 1 and H0422: 1. AR104: 1, AR052: 1, AR055: 1, AR033: 1, AR061: 1, AR039: 0, AR089: 0, AR053: 0, AR060: 0, AR096: 0 L0794: 10, L0809: 9, L0750: 9, L0791: 7, L0747: 7, L0758: 6, L0759: 6, H0620: 5, L0749: 5, S0358: 4, H0135: 4, L0769: 4, L0800: 4, L0805: 4, L0659: 4, H0556: 3, L0471: 3, H0040: 3, L0804: 3, S0360: 2, H0393: 2, H0550: 2, H0592: 2, H0333: 2, S0049: 2, H0124: 2, S0438: 2, L0771: 2, L0662: 2, L0803: 2, L4501: 2, H0547: 2, L0779: 2, L0755: 2, L0731: 2, S0434: 2, L0603: 2, H0506: 2, H0713: 1, H0717: 1, H0294: 1, H0662: 1, H0729: 1, S0045: 1, H0607: 1, H0586: 1, H0587: 1, T0040: 1, S0280: 1, H0590:				126-142
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1093	HHEHG38	883493	1103	88 - 1722	2508	Gly-6 to Leu-13, Lys-15 to His-20, Ile-70 to Lys-76, Tyr-145 to Thr-150, Ser-223 to Met-228, Gly-252 to Gly-258, Glu-339 to Tyr-351, Leu-379 to Ile-387, Lys-394 to Thr-404.	1, S0010: 1, H0581: 1, H0251: 1, H0041: 1, H0565: 1, H0570: 1, H0123: 1, H0081: 1, H0050: 1, H0188: 1, H0039: 1, H0622: 1, H0038: 1, H0063: 1, H0412: 1, H0413: 1, S0440: 1, S0210: 1, S0002: 1, L0763: 1, L0770: 1, L0761: 1, L0641: 1, L0768: 1, L0766: 1, L0375: 1, L0806: 1, L0776: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0660: 1, H0672: 1, H0539: 1, S0380: 1, H0521: 1, H0696: 1, H0555: 1, L0744: 1, L0748: 1, L0780: 1, L0757: 1, H0445: 1, L0584: 1, L0589: 1, S0242: 1, S0194: 1, H0008: 1 and H0352: 1.	AR039: 7, AR061: 6, AR104: 5, AR053: 5, AR096: 5, AR033: 5, AR052: 5, AR055: 4, AR089: 4, AR060: 4 L0779: 1, L0777: 1 and H0542: 1.			93-110, 405-421, 189-205, 444-460, 22-38, 231-247
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1094	HSLDT25	883540	1104	50 - 679	2509		AR052: 18, AR033: 13, AR096: 12, AR089: 12, AR053: 10, AR060: 7, AR061: 6, AR104: 6, AR055: 6, AR039: 5 S0028: 1			11-38, 59- 82, 89- 118, 115- 138, 145- 163
1095	HSDGH19	883575	1105	374 - 697	2510	Pro-5 to Lys-11, Ala-21 to Ser-26, Asp-50 to Thr-56, Cys-90 to Ile-96, Val-103 to Gln-108.	AR096: 25, AR039: 22, AR104: 19, AR089: 18, AR053: 17, AR033: 16, AR052: 14, AR060: 14, AR055: 12, AR061: 7 H0521: 2, S0031: 2, H0305: 1, H0619: 1, H0635: 1, H0318: 1, H0309: 1, H0090: 1, H0059: 1, S0002: 1, H0435: 1 and L0740: 1.			67-90, 31- 47
1096	HCEOU19	883591	1106	2 - 373	2511	Asp-21 to Cys-41, Pro-43 to Leu-51, Ala-111 to Trp-118.	AR089: 5, AR053: 5, AR060: 4, AR096: 4, AR033: 3, AR039: 2, AR055: 2, AR061: 2, AR104: 2, AR052: 1 L0751: 4, L0803: 3, H0052: 2, H0125: 1, S0442: 1, H0009: 1, S0003: 1, L0055: 1, L0662: 1, L0774: 1, L0659: 1, L0789: 1, H0214: 1, L0749: 1 and L0605: 1.			72-106, 1- 20
1097	HBIMF04	883607	1107	126 -	2512	Met-1 to His-10,	AR053: 4, AR052: 3,			287-303,

				1253	<p>Leu-51 to Leu-60, Ser-84 to Val-91, Pro-222 to Asp-227, Glu-229 to Leu-236.</p>	<p>AR055: 3, AR033: 3, AR096: 3, AR089: 3, AR104: 3, AR060: 2, AR039: 2, AR061: 2 H0457: 11, L0766: 8, H0436: 5, L0747: 4, H0486: 3, H0620: 3, H0520: 3, H0341: 2, H0255: 2, H0402: 2, S0358: 2, H0581: 2, H0024: 2, H0405: 2, H0617: 2, L0761: 2, L0662: 2, L0768: 2, L0803: 2, L0776: 2, L0663: 2, H0691: 2, H0547: 2, H0555: 2, L0742: 2, L0779: 2, L0731: 2, H0543: 2, H0265: 1, H0584: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0125: 1, S0360: 1, H0549: 1, H0550: 1, H0613: 1, H0600: 1, H0592: 1, H0069: 1, H0618: 1, H0253: 1, H0318: 1, L0738: 1, H0544: 1, H0546: 1, H0009: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0622: 1, H0606: 1, H0135: 1, H0040: 1, H0488: 1, H0494: 1, H0560: 1, S0372: 1, S0002: 1, H0695: 1, L0769:</p>			<p>142-158, 331-347</p>
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1098	HSKZE56	883619	1108	30 - 1079	2513		1, L0639: 1, L0772: 1, L0643: 1, L0645: 1, L0773: 1, L0775: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0790: 1, L0665: 1, H0593: 1, H0435: 1, S0328: 1, H0694: 1, H0134: 1, S0406: 1, L0741: 1, L0744: 1, L0748: 1, L0758: 1, H0667: 1 and H0506: 1.				164-180, 271-287, 77-93
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1099	HLJBD90	883638	1109	731 - 1324	2514	Ala-2 to Tyr-20.	AR055: 2, AR052: 2, AR053: 2, AR033: 2, AR096: 2, AR039: 2, AR060: 1, AR061: 1, AR089: 1, AR104: 0					130-161	
1100	HAUAX28	883675	1110	515 - 967	2515	Phe-85 to Gly-96, Glu-133 to Thr-143.	AR055: 16, AR039: 14, AR053: 11, AR033: 10, AR052: 10, AR060: 10, AR089: 9, AR104: 9, AR096: 8, AR061: 8 L0509: 10, L0766: 6, L0504: 5, L0775: 4, L0499: 3, L0493: 3, L0515: 3, L0511: 3, L0809: 3, L0747: 3, L0502: 2, L0500: 2, L0771: 2, L0510: 2, L0512: 2, L0748: 2, L0439: 2, L0751: 2, L0779: 2, L0752: 2, L0731: 2, L0759: 2, L0593: 2, H0294: 1, H0125: 1, S0418: 1, S0420: 1, L0005: 1, S0358: 1, S0444: 1, S0045: 1, H0549: 1,					96-115, 67-83, 12- 28	

1101	HUCPU88	883702	1111	923 - 3	2516	Lys-8 to Arg-18.	H0438: 1, H0559: 1, H0486: 1, H0318: 1, S0049: 1, L0471: 1, H0083: 1, S6028: 1, H0376: 1, H0090: 1, H0509: 1, H0529: 1, L0506: 1, L0763: 1, L0772: 1, L0764: 1, L0662: 1, L0774: 1, L0438: 1, H0689: 1, H0684: 1, H0658: 1, H0670: 1, H0660: 1, H0696: 1, S0044: 1, H0134: 1, L0740: 1, L0749: 1, L0755: 1, H0543: 1 and H0422: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477	279-301	
1102	HFXKJ22	883713	1112	22 - 438	2517		AR096: 5, AR053: 5, AR089: 4, AR052: 4, AR060: 3, AR033: 2, S0420: 1			20-42, 108-127, 1-18, 58-	

1103	HWHPD05	883740	1113	133 - 1566	2518	Pro-44 to Lys-55, Pro-72 to Ser-79, His-138 to Lys-145, Leu-150 to Asp-155, Leu-164 to Val-170, Thr-173 to Gly-182, Gly-194 to Lys-204, Pro-233 to Gln-241, Pro-243 to Ala-255, Ser-469 to Asp-478.	AR055: 2, AR039: 1, AR104: 1, AR061: 1 S0282: 2 and H0352: 1. AR096: 1, AR033: 1, AR104: 1, AR089: 1, AR060: 1, AR061: 0, AR052: 0, AR053: 0, AR039: 0 L0439: 3, H0587: 1 and H0560: 1.				74
1104	HFRAN15	883797	1114	703 - 1347	2519	Tyr-86 to Pro-93, Pro-143 to Ala-151, Leu-178 to Arg-189.	AR096: 4, AR060: 3, AR089: 3, AR053: 2, AR055: 2, AR061: 2, AR033: 2, AR104: 1, AR052: 1, AR039: 0 H0617: 2 and S0050: 1.				16-39, 64- 85, 41-60, 99-115, 150-166
1105	HHGCV39	883848	1115	40 - 390	2520		AR052: 24, AR055: 19, AR053: 17, AR096: 17, AR060: 16, AR033: 15, AR104: 15, AR089: 13, AR061: 11, AR039: 8 L0759: 6, L0769: 5, H0052: 4, L0770: 4, L0809: 4, L0439: 4, L0752: 4, S0408: 3, L0751: 3, L0747: 3, L0779: 3, S0007: 2,	19q13.1- q13.2 107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400,			71-93, 15- 31

1106	HMAFM80	883887	1116	279 - 758	2521	Met-40 to Thr-47.	H0351: 2, H0333: 2, H0427: 2, H0581: 2, L0662: 2, L0649: 2, L0774: 2, L0806: 2, L0666: 2, L0741: 2, L0777: 2, H0543: 2, H0739: 1, H0171: 1, H0254: 1, H0125: 1, H0675: 1, H0722: 1, H0733: 1, S0140: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0257: 1, H0486: 1, L0022: 1, H0042: 1, H0150: 1, H0086: 1, H0123: 1, T0010: 1, H0266: 1, H0673: 1, S0364: 1, H0063: 1, H0087: 1, H0494: 1, H0560: 1, H0538: 1, L0761: 1, L0772: 1, L0646: 1, L0765: 1, L0766: 1, L0805: 1, L0776: 1, L0807: 1, L0657: 1, L0783: 1, H0547: 1, S0126: 1, H0435: 1, S0330: 1, H0521: 1, H0522: 1, L0743: 1, L0749: 1, L0750: 1, L0786: 1, L0753: 1, L0755: 1, L0731: 1, L0758: 1, S0436: 1, S0011: 1 and S0192: 1.	173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716			44-73, 88- 110, 10- 26, 109-
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1107	HAPOW71	883889	1117	682 - 1392	2522	Glu-12 to Gln-18, Thr-41 to Asn-51, Lys-96 to Ser-104, Arg-176 to Ser-186, Ile-200 to Asn-205, Ser-224 to Ser-231.	AR096: 1, AR053: 0, AR104: 0, AR039: 0 H0457: 3, L0776: 3, H0253: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, H0586: 1, L0622: 1, H0156: 1, H0706: 1, T0048: 1, H0318: 1, H0052: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S3014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1.				125
							AR060: 9, AR096: 8, AR061: 5, AR033: 4, AR055: 4, AR089: 2, AR052: 2, AR104: 1, AR053: 0, AR039: 0 L0770: 5, L0662: 4, L0731: 4, H0624: 3, H0486: 3, L0750: 3, L0599: 3, H0713: 2, H0050: 2, H0615:				58-90, 134-159, 19-39, 111-127

1108	HBCBW64	883947	1118	563 - 78	2523		2, H0031: 2, L0774: 2, L0742: 2, L0743: 2, L0748: 2, L0747: 2, L0485: 2, H0717: 1, S0442: 1, S0222: 1, H0586: 1, H0587: 1, H0013: 1, H0427: 1, H0156: 1, H0575: 1, S0049: 1, H0194: 1, H0572: 1, L0471: 1, H0188: 1, H0553: 1, H0644: 1, H0628: 1, H0383: 1, H0316: 1, T0067: 1, L0375: 1, L0665: 1, H0144: 1, H0691: 1, L0438: 1, H0660: 1, H0648: 1, S0328: 1, S0378: 1, L0749: 1, L0779: 1, H0444: 1, L0605: 1 and H0352: 1.				
							AR033: 5, AR089: 3, AR060: 2, AR061: 2, AR096: 1, AR052: 1, AR055: 1, AR053: 1, AR104: 0, AR039: 0, H0618: 7, H0424: 6, L0758: 6, L0777: 5, H0556: 4, H0370: 2, H0013: 2, H0253: 2, H0038: 2, H0616: 2, L0800: 2, L0776: 2, L0665: 2, S0126: 2, H0672: 2, L0602: 2, L0439: 2, L0752: 2, L0731: 2, L0595:				79-105

1109	HBING74	883950	1119	639 - 1637	2524	Arg-6 to Val-12, Ala-16 to Asp-21, Ala-52 to Gln-58, Leu-187 to Tyr-192, Arg-282 to Pro-291, Pro-320 to Gly-328.	2, T0002: 1, H0717: 1, H0716: 1, S0134: 1, H0657: 1, H0661: 1, S0356: 1, H0722: 1, S0132: 1, H0645: 1, H0549: 1, H0586: 1, H0587: 1, H0574: 1, H0046: 1, H0569: 1, H0105: 1, H0373: 1, H0328: 1, H0688: 1, H0031: 1, H0553: 1, H0673: 1, L0435: 1, H0561: 1, H0509: 1, H0131: 1, L0639: 1, L0372: 1, L0641: 1, L0773: 1, L0648: 1, L0768: 1, L0386: 1, L0803: 1, L0775: 1, L0523: 1, L0805: 1, L0655: 1, L0659: 1, L0666: 1, L0664: 1, H0725: 1, L0438: 1, H0519: 1, H0593: 1, H0660: 1, H0539: 1, H0696: 1, L0754: 1, L0749: 1, L0599: 1, S0026: 1, H0665: 1, S0192: 1, S0194: 1, H0542: 1 and H0422: 1.				222-240
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	L0758: 6, L0777: 5, H0556: 4, H0370: 2, H0013: 2, H0253: 2, H0038: 2, H0616: 2, L0800: 2, L0776: 2, L0665: 2, S0126: 2, H0672: 2, L0602: 2, L0439: 2, L0752: 2, L0731: 2, L0595: 2, T0002: 1, H0717: 1, H0716: 1, S0134: 1, H0657: 1, H0661: 1, S0356: 1, H0722: 1, S0132: 1, H0645: 1, H0549: 1, H0586: 1, H0587: 1, H0574: 1, H0046: 1, H0569: 1, H0105: 1, H0373: 1, H0328: 1, H0688: 1, H0031: 1, H0553: 1, H0673: 1, L0435: 1, H0561: 1, H0509: 1, H0131: 1, L0639: 1, L0372: 1, L0641: 1, L0773: 1, L0648: 1, L0768: 1, L0386: 1, L0803: 1, L0775: 1, L0523: 1, L0805: 1, L0655: 1, L0659: 1, L0666: 1, L0664: 1, H0725: 1, L0438: 1, H0519: 1, H0593: 1, H0660: 1, H0539: 1, H0696: 1, L0754: 1, L0749: 1, L0599: 1, S0026: 1, H0665: 1, S0192: 1, S0194: 1, H0542: 1 and	
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1110	HBIMJ94	883951	1120	76 - 1824	2525	Thr-7 to Asn-13, Arg-55 to Pro-84, Leu-142 to Val-147, Ala-160 to Arg-165, Thr-173 to Thr-182, Asp-207 to Ile-217, Ala-233 to Pro-238, Asp-249 to Asp-261, Glu-264 to Cys-270, Glu-287 to Gly-301, Ala-319 to Pro-326, Val-328 to Gly-334, Pro-344 to Thr-350.	H0422: 1, AR039: 16, AR033: 11, AR053: 10, AR096: 9, AR089: 9, AR052: 8, AR104: 7, AR055: 7, AR060: 5, AR061: 5 H0052: 6, L0766: 6, L0748: 5, L0747: 5, H0253: 4, L0769: 4, L0771: 4, L0756: 4, L0758: 4, S0360: 3, H0559: 3, H0124: 3, L0774: 3, L0438: 3, L0779: 3, L0731: 3, H0624: 2, S0212: 2, H0254: 2, H0662: 2, L0617: 2, H0392: 2, H0618: 2, H0123: 2, H0012: 2, H0620: 2, S0002: 2, L0796: 2, L0662: 2, L0803: 2, L0655: 2, L0789: 2, L0070: 2, L0751: 2, H0556: 1, T0002: 1, S0114: 1, H0341: 1, H0483: 1, H0255: 1, S0418: 1, S0354: 1, S0376: 1, S0045: 1, H0411: 1, H0261: 1, H0549: 1, S0222: 1, S0474: 1, S0049: 1, H0194: 1, H0545: 1, H0023: 1, H0024: 1, S0051: 1, H0510: 1, H0238: 1, S0250: 1, T0023: 1, H0553:	22q13.33	532-558, 36-52, 502-518
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1111	HNFCI36	884007	1121	65 - 961	2526	Gly-5 to Gln-12, Arg-34 to Gly-39, Gly-76 to Gly-81, Glu-86 to Ile-93, Phe-97 to Ala-104.	1, H0617: 1, H0674: 1, S0366: 1, S0036: 1, H0135: 1, H0040: 1, H0087: 1, S0038: 1, T0041: 1, S0464: 1, S0440: 1, H0652: 1, L0598: 1, H0529: 1, L0369: 1, L0770: 1, L0639: 1, L0637: 1, L0764: 1, L0773: 1, L4556: 1, L0775: 1, L0805: 1, L0776: 1, L0661: 1, L0657: 1, L0659: 1, L0542: 1, L0384: 1, L0809: 1, L4501: 1, L0666: 1, H0593: 1, S0126: 1, S0330: 1, H0521: 1, H0522: 1, H0555: 1, H0187: 1, S3012: 1, S0028: 1, L0745: 1, L0757: 1, S0194: 1 and H0423: 1.				13-32, 227-244, 119-135, 208-224
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1112	HAFAH26	884076	1122	43 - 1053	2527		AR033: 7, AR060: 5, AR061: 5, AR055: 5, AR089: 4, AR052: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0643: 2, L0803: 2, S0452: 2, T0049: 1, H0580: 1, H0013: 1, H0156: 1, H0581: 1, H0179: 1, H0271: 1, H0040: 1, S0422: 1, L0369: 1, L0766: 1, L0655: 1, L0607: 1, L0791: 1, H0693: 1, H0670: 1, S0380: 1, H0579: 1, L0777: 1, L0752: 1, S0011: 1 and H0653: 1.			27-64, 22- 39, 133- 149, 186- 202, 218- 234
1113	HE8MV45	884379	1123	164 - 775	2528	Gln-109 to Gln-115, Gln-149 to Ala-154.	AR052: 6, AR055: 4, AR053: 4, AR060: 3, AR033: 3, AR096: 2, AR039: 2, AR089: 2, AR061: 2, AR104: 2			8-27, 74- 90
1114	HUKEQ96	884532	1124	865 - 563	2529	Arg-49 to Ala-55.	AR033: 19, AR104: 18, AR055: 15, AR060: 10, AR052: 9, AR061: 9, AR089: 8, AR053: 8, AR096: 8, AR039: 4 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771:			73-89, 1- 17

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1115	HKADF73	884660	1125	514 - 1134	2530	Met-1 to Ser-12, Pro-47 to Trp-55, Pro-63 to Trp-71, Pro-79 to Trp-87, Pro-95 to Pro-104, Gln-129 to Asp-137, Arg-165 to Gly-170.	1, H0213: 1, H0628: 1, H0617: 1, L0055: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0505: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.				105-123, 143-159
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1116	HSLEN72	884818	1126	79 - 435	2531			1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, H0555: 1, L0756: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1, S0436: 1, S0192: 1, H0542: 1 and S0458: 1.				24-58, 95-119, 5-21
1117	HTXDM64	885098	1127	1274 - 789	2532	Lys-10 to Arg-17, Glu-31 to Ser-37, Thr-62 to Phe-70, Ser-83 to Gly-93.		AR052: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0, AR053: 0 S0028: 4, S0031: 3, H0617: 2, S0150: 2, H0381: 1, S0001: 1, S0282: 1, S0045: 1, S0222: 1, S0005: 1, H0331: 1, L0105: 1, S0050: 1, S0051: 1, H0271: 1, H0165: 1, H0056: 1, S0428: 1, S0053: 1 and S0194: 1.				98-126, 39-61

1118	HAGDJ72	885264	1128	185 - 505	2533	Met-1 to Ser-8, Val-31 to Gly-36, Ser-73 to Ala-83, Ser-97 to Phe-102.	1, L0748: 1 and L0753: 1. AR055: 10, AR033: 5, AR060: 4, AR053: 4, AR061: 4, AR052: 3, AR089: 2, AR096: 2, AR104: 2, AR039: 1 S0010: 1, L0438: 1, H0659: 1 and L0439: 1.				37-70
1119	HTPHK88	885476	1129	438 - 908	2534	Lys-26 to Glu-49, Lys-121 to Leu-131.	AR055: 9, AR060: 6, AR089: 5, AR033: 4, AR052: 4, AR053: 4, AR061: 4, AR104: 2, AR096: 2, AR039: 2 H0622: 1, H0509: 1, H0144: 1, S0126: 1, L0750: 1 and L0759: 1.				1-27, 52- 68
1120	HDPFA53	885596	1130	1038 - 1	2535	Gln-12 to Asp-18.	AR096: 9, AR060: 6, AR089: 5, AR104: 5, AR033: 4, AR039: 4, AR052: 4, AR055: 3, AR061: 2, AR053: 2 L0770: 5, L0751: 4, H0040: 3, L0766: 3, L0758: 3, S0358: 2, H0619: 2, H0266: 2, S0003: 2, H0553: 2, H0056: 2, L0775: 2, L0655: 2, L0665: 2, H0690: 2, H0696: 2, L0748: 2, L0754: 2, L0745: 2, L0777:				295-326, 279-301

							2, L0755: 2, L0731: 2, L0759: 2, H0624: 1, H0650: 1, S0282: 1, H0661: 1, S0442: 1, S0408: 1, H0580: 1, S0222: 1, H0587: 1, H0486: 1, T0114: 1, H0156: 1, L0021: 1, H0003: 1, H0575: 1, H0004: 1, S0346: 1, H0327: 1, H0050: 1, T0010: 1, H0375: 1, H0628: 1, S0036: 1, H0163: 1, H0634: 1, H0494: 1, H0509: 1, H0649: 1, L0598: 1, H0529: 1, L0369: 1, L0764: 1, L0381: 1, L0653: 1, L0776: 1, L0629: 1, H0520: 1, H0682: 1, H0659: 1, H0539: 1, H0521: 1, S0406: 1, H0436: 1, H0540: 1, L0744: 1, L0752: 1, L0596: 1, L0485: 1, S0026: 1, S0194: 1 and H0543: 1.				
1121	HMSDQ93	886043	1131	160 - 459	2536	Ile-26 to Lys-34.	AR052: 19, AR096: 14, AR089: 10, AR039: 7, AR053: 7, AR033: 6, AR060: 4, AR061: 3, AR055: 2, AR104: 1 H0580: 1, H0486: 1, H0328: 1, S0002: 1, S0330: 1 and H0521: 1.				61-78

1122	HSXAD12	886222	1132	341 - 793	2537	Pro-111 to Gly-116, Ala-130 to Trp-142.	AR055: 9, AR052: 8, AR033: 6, AR060: 5, AR096: 5, AR061: 4, AR089: 4, AR039: 4, AR053: 4, AR104: 3 L0794: 10, L0766: 9, L0740: 9, L0749: 8, H0046: 7, L0758: 7, H0521: 6, L0803: 5, S0358: 4, H0457: 4, L0769: 4, L0744: 4, L0439: 4, L0747: 4, L0750: 4, L0779: 4, H0657: 3, H0266: 3, H0553: 3, H0090: 3, H0413: 3, L0770: 3, L0804: 3, L0775: 3, L0659: 3, L0438: 3, H0519: 3, S0152: 3, L0748: 3, L0731: 3, H0445: 3, S0026: 3, H0265: 2, S0212: 2, S0278: 2, H0050: 2, S0440: 2, S0002: 2, L0763: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0809: 2, L0789: 2, S0126: 2, H0659: 2, H0660: 2, S0330: 2, H0539: 2, L0751: 2, L0777: 2, L0757: 2, L0595: 2, H0423: 2, H0624: 1, S0040: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0420: 1,				5-26, 54- 70, 73-89
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	S0354: 1, S0376: 1, H0637: 1, H0580: 1, H0411: 1, H0549: 1, H0497: 1, H0574: 1, H0581: 1, H0421: 1, H0052: 1, H0251: 1, L0738: 1, H0544: 1, H0009: 1, H0123: 1, H0023: 1, H0014: 1, H0083: 1, S6028: 1, H0271: 1, H0284: 1, S0003: 1, H0674: 1, S0036: 1, H0038: 1, H0040: 1, H0063: 1, H0551: 1, H0059: 1, H0494: 1, H0509: 1, H0641: 1, S0142: 1, S0344: 1, H0538: 1, S0426: 1, L0631: 1, L0800: 1, L0641: 1, L0773: 1, L0648: 1, L0662: 1, L0767: 1, L0768: 1, L0774: 1, L0651: 1, L0805: 1, L0527: 1, L0518: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0052: 1, H0144: 1, S0374: 1, H0547: 1, H0435: 1, H0648: 1, S0328: 1, L0602: 1, H0704: 1, H0627: 1, S3014: 1, L0754: 1, L0780: 1, L0753: 1, L0759: 1, S0434: 1, L0480: 1, L0589: 1 and L0608: 1.
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1123	HWBAL42	886307	1133	563 - 177	2538	Arg-37 to Arg-46, Ser-71 to Gln-76.	AR052: 13, AR053: 9, AR096: 4, AR089: 4, AR060: 2, AR033: 2, AR104: 2, AR039: 1, AR055: 1, AR061: 1 H0547: 4, H0251: 3, H0521: 3, H0542: 3, H0266: 2, H0040: 2, L0646: 2, L0659: 2, L0665: 2, L0743: 2, L0754: 2, S0116: 1, S0354: 1, S0376: 1, H0580: 1, H0742: 1, H0486: 1, H0575: 1, H0318: 1, H0457: 1, H0084: 1, H0212: 1, H0059: 1, H0509: 1, H0142: 1, S0002: 1, L0764: 1, L0662: 1, L0626: 1, L0766: 1, L0809: 1, H0519: 1, H0672: 1, S0378: 1, S0174: 1, H0626: 1, S0027: 1, L0780: 1, L0755: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1 and H0422: 1.				48-65
1124	HUJBO10	886364	1134	204 - 1079	2539	Gln-56 to Leu-68, Glu-88 to Asn-95, Glu-122 to Leu-127, Val-136 to Cys-145, Gly-185 to Leu-191, Leu-239 to Lys-252.	AR089: 2, AR053: 2, AR060: 2, AR033: 2, AR104: 2, AR096: 2, AR039: 1, AR055: 1, AR061: 1, AR052: 0 L0779: 3, H0650: 1, H0560: 1, L0770: 1, L0806:				249-282, 274-290, 31-47

1125	HMUAP06	886417	1135	1684 - 905	2540	Val-62 to Gly-67, Glu-130 to Leu-135, Glu-164 to Glu-179, Glu-213 to Gly-223.	1, L0655: 1, H0444: 1, L0596: 1, L0591: 1 and S0424: 1. AR052: 5, AR053: 4, AR039: 3, AR033: 2, AR104: 2, AR089: 2, AR055: 2, AR096: 2, AR061: 2, AR060: 1 S0212: 1, T0114: 1, H0253: 1, H0266: 1, H0644: 1, H0494: 1, H0529: 1, H0435: 1, L0759: 1, L0596: 1 and H0423: 1.				239-255, 138-154, 179-195
1126	HL YCA31	886496	1136	956 - 261	2541	Met-1 to Pro-7, Ser-12 to His-19.	AR039: 25, AR033: 16, AR089: 13, AR104: 12, AR096: 12, AR053: 11, AR052: 10, AR055: 9, AR060: 9, AR061: 7 H0052: 3, L0666: 3, L0758: 3, S0007: 2, H0201: 2, H0090: 2, H0672: 2, L0748: 2, L0747: 2, L0749: 2, L0752: 2, H0445: 2, H0265: 1, S0134: 1, S0212: 1, S0348: 1, S0045: 1, H0393: 1, S0222: 1, T0060: 1, H0013: 1, T0082: 1, H0318: 1, L0471: 1, H0266: 1, L0455: 1, L0456: 1,				175-208

1127	HETIY94	886524	1137	88 - 612	2542	Pro-15 to Glu-25, Ala-107 to Gln-112.	S0366: 1, H0561: 1, H0131: 1, S0150: 1, H0538: 1, S0422: 1, L0774: 1, L0636: 1, H0547: 1, H0593: 1, S0136: 1, S0028: 1, L0751: 1, L0745: 1, L0779: 1, L0731: 1, L0759: 1, H0707: 1, H0423: 1 and S0446: 1.				
							AR089: 6, AR055: 5, AR060: 5, AR033: 3, AR061: 3, AR052: 3, AR096: 3, AR104: 3, AR053: 2, AR039: 2 L0751: 2, L0803: 1, L0805: 1, S0374: 1, H0658: 1 and L0747: 1.				23-59
1128	HRGBW44	886559	1138	78 - 1259	2543	Glu-7 to Trp-15, Glu-24 to Arg-31, Arg-71 to Pro-80, Glu-91 to Pro-98, Gln-112 to Thr-130, Asp-168 to Leu-175, Lys-202 to Lys-207, Glu-291 to Pro-298, Lys-332 to Ile-340, Asp-343 to Glu-351, Lys-363 to Ser-380, Leu-386 to Ala-393.	AR052: 49, AR096: 28, AR089: 27, AR053: 22, AR060: 20, AR039: 18, AR033: 11, AR061: 9, AR055: 6, AR104: 5, H0617: 6, L0748: 5, L0809: 4, L0581: 4, L0789: 3, L0747: 3, L0779: 3, L0518: 2, S0330: 2, L0743: 2, L0439: 2, L0749: 2, L0750: 2, H0170: 1, H0484: 1, H0497: 1, H0427: 1, H0599: 1, H0618: 1, H0544:				37-56, 306-326, 258-281, 209-225, 178-194, 139-155

1129	HMTAU01	886593	1139	274 - 1629	2544	His-17 to Arg-24, Asp-46 to Leu-51, Glu-161 to Glu-172, Arg-273 to Glu-284, Pro-291 to Lys-296, Pro-317 to Ala-326, Pro-393 to Pro-410, Glu-416 to Ile-421.	1, H0545: 1, H0150: 1, H0009: 1, H0562: 1, S0388: 1, H0687: 1, H0181: 1, H0166: 1, H0264: 1, S0112: 1, H0494: 1, H0509: 1, S0144: 1, S0344: 1, L0640: 1, L0770: 1, L0769: 1, L0766: 1, L0803: 1, L0776: 1, L0636: 1, L0790: 1, L0665: 1, H0547: 1, S0126: 1, H0672: 1, H0518: 1, H0134: 1, L0759: 1, S0434: 1, L0592: 1, H0543: 1, H0422: 1 and H0352: 1.				101-123, 138-154, 327-343, 365-381, 206-222, 77-93
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1130	HDPVO38	886670	1140	49 - 1644	2545	Pro-46 to Arg-51, Leu-65 to Asp-70, Thr-103 to Pro-113.	S0374: 1, H0658: 1, H0518: 1, H0436: 1, L0749: 1, L0758: 1, S0276: 1 and L0465: 1. AR033: 2, AR089: 2, AR060: 1, AR053: 1, AR039: 1, AR061: 1, AR055: 1, AR052: 0, AR096: 0, AR104: 0 L0794: 6, L0749: 5, L0756: 5, S0192: 5, L0805: 4, L0747: 4, L0752: 4, L0455: 3, H0038: 3, L0770: 3, L0793: 3, L0591: 3, H0046: 2, H0135: 2, L0769: 2, L0637: 2, L0776: 2, L0659: 2, L0518: 2, L0809: 2, L0565: 2, H0522: 2, L0748: 2, S0282: 1, H0664: 1, S0418: 1, S0420: 1, S0007: 1, S0132: 1, H0333: 1, H0486: 1, H0618: 1, S0010: 1, H0596: 1, L0040: 1, L0471: 1, S0051: 1, T0023: 1, H0316: 1, H0494: 1, S0440: 1, H0509: 1, H0647: 1, L0640: 1, L0772: 1, L0800: 1, L0641: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0651: 1,				271-288, 338-355, 128-144, 230-246, 311-327
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1131	HSDKL35	886684	1141	137 - 484	2546				L0628: 1, L0559: 1, L0542: 1, L0787: 1, L0790: 1, L0665: 1, T0068: 1, H0547: 1, H0689: 1, H0684: 1, H0672: 1, S0378: 1, H0521: 1, H0555: 1, H0478: 1, S0028: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, S0308: 1, L0361: 1 and S0458: 1.				24-55, 45-66, 1-22
									AR033: 11, AR104: 6, AR053: 5, AR089: 5, AR052: 5, AR061: 5, AR060: 5, AR055: 4, AR096: 4, AR039: 3, L0803: 13, L0794: 11, S0358: 10, L0766: 7, S0126: 7, L0439: 7, L0659: 6, L0608: 6, S0212: 5, H0521: 5, L0777: 5, S0360: 4, H0644: 4, L0769: 4, L0805: 4, L0809: 4, L0754: 4, S0354: 3, S0010: 3, H0581: 3, L0483: 3, L0800: 3, L0764: 3, L0806: 3, L0663: 3, S0374: 3, L0740: 3, L0591: 3, H0624: 2, H0638: 2, S0356: 2, S0132: 2, H0327: 2, H0510: 2, H0031: 2, S0036: 2, L0771: 2,				

L0662: 2, L0651: 2, H0519: 2, H0689: 2, H0518: 2, H0552: 2, S3014: 2, S0028: 2, L0745: 2, L0779: 2, L0752: 2, L0731: 2, L0757: 2, S0434: 2, L0596: 2, L0589: 2, L0599: 2, L0362: 2, H0170: 1, H0556: 1, S6024: 1, S0116: 1, S0282: 1, S0400: 1, H0661: 1, S0444: 1, H0676: 1, S0408: 1, T0008: 1, H0637: 1, H0580: 1, S0046: 1, L0717: 1, H0013: 1, L0021: 1, H0318: 1, S0474: 1, S0049: 1, H0263: 1, H0596: 1, H0024: 1, L0163: 1, S0051: 1, H0355: 1, S0003: 1, H0252: 1, T0006: 1, H0628: 1, H0124: 1, H0090: 1, H0040: 1, H0634: 1, S0372: 1, S0440: 1, H0633: 1, S0144: 1, S0426: 1, H0517: 1, L0796: 1, L0761: 1, L0667: 1, L0373: 1, L0374: 1, L0773: 1, L0364: 1, L0387: 1, L0804: 1, L0650: 1, L0774: 1, L0653: 1, L0776: 1, L0655: 1, L0628: 1, L0657: 1, L0782: 1,
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1132	HTLJA77	886742	1142	213 - 605	2547	Gly-13 to Pro-21, Ser-67 to Pro-73, Gly-92 to Leu-98.	L0790: 1, L0666: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0435: 1, H0659: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0522: 1, S0404: 1, S0406: 1, L0747: 1, L0756: 1, L0758: 1, S0260: 1, H0445: 1, L0366: 1, S0011: 1, H0665: 1, S0196: 1 and H0542: 1. AR055: 12, AR061: 6, AR060: 6, AR033: 6, AR089: 5, AR096: 5, AR052: 5, AR039: 4, AR104: 3, AR053: 3 L0752: 7, L0747: 6, L0666: 5, L0803: 4, L0776: 4, S0222: 3, L0662: 3, L0766: 3, L0777: 3, L0361: 3, S0114: 2, H0254: 2, H0661: 2, S0354: 2, H0618: 2, H0594: 2, H0188: 2, H0424: 2, H0135: 2, L0764: 2, L0805: 2, L0655: 2, L0789: 2, L0532: 2, S0052: 2, L0438: 2, H0521: 2, L0742: 2, L0743: 2, L0754: 2, L0750: 2, L0755: 2, H0422: 2, H0685: 1, S0342: 1, H0713: 1, S0134: 1,					37-67
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1133	HCFLJ17	886761	1143	34 - 381	2548	Glu-8 to Glu-18, Glu-32 to Ser-56.	H0583: 1, H0255: 1, H0402: 1, S0358: 1, S0476: 1, L0717: 1, H0392: 1, H0455: 1, H0613: 1, L0586: 1, S0280: 1, L0021: 1, H0706: 1, H0390: 1, H0581: 1, H0251: 1, H0544: 1, H0545: 1, H0046: 1, L0471: 1, T0010: 1, H0028: 1, H0615: 1, H0604: 1, H0673: 1, H0708: 1, H0413: 1, H0102: 1, L0770: 1, L0769: 1, L0772: 1, L0646: 1, L0364: 1, L0794: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0435: 1, H0658: 1, H0660: 1, H0696: 1, H0576: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, L0366: 1, S0194: 1, H0423: 1, S0458: 1, S0446: 1, H0506: 1 and H0352: 1, AR052: 8, AR053: 7, AR039: 6, AR096: 6, AR033: 5, AR089: 4, AR060: 4, AR055: 4, AR104: 3, AR061: 2					88-107
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L0758: 7, S0358: 5, L0362: 5, L0766: 4, L0754: 4, H0423: 4, H0318: 3, H0551: 3, H0529: 3, L0803: 3, H0519: 3, L0750: 3, L0777: 3, H0650: 2, H0369: 2, H0575: 2, S0474: 2, T0110: 2, S0003: 2, H0268: 2, L0770: 2, L0662: 2, L0375: 2, H0144: 2, S0374: 2, S0152: 2, L0780: 2, L0752: 2, L0731: 2, H0445: 2, L0596: 2, L0605: 2, L0599: 2, L0608: 2, H0543: 2, H0624: 1, H0170: 1, H0716: 1, H0657: 1, H0402: 1, S0420: 1, S0442: 1, S0360: 1, H0675: 1, S0045: 1, S0476: 1, L0717: 1, H0600: 1, H0587: 1, H0497: 1, H0574: 1, H0098: 1, H0037: 1, L0105: 1, H0581: 1, H0052: 1, H0544: 1, L0471: 1, H0060: 1, H0328: 1, H0622: 1, L0483: 1, L0055: 1, H0598: 1, H0090: 1, H0040: 1, H0413: 1, H0561: 1, L0638: 1, L0667: 1, L0646: 1, L0794: 1, L0774: 1, L0805: 1, L0655:

1134	HNGKM74	886937	1144	26 - 988	2549	Phe-140 to Lys-151.	1, L0527: 1, L0657: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L4501: 1, L0666: 1, H0520: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0521: 1, H0555: 1, H0436: 1, S0028: 1, L0742: 1, L0756: 1, S0192: 1, S0242: 1, S0194: 1 and S0276: 1.						168-190, 97-114, 207-223
1135	HTTJQ27	887007	1145	112 - 666	2550	Pro-2 to Cys-7, Ile-113 to Lys-118, Glu-162 to Ala-170.	AR061: 4, AR055: 4, AR053: 4, AR060: 3, AR089: 3, AR052: 3, AR039: 3, AR033: 3, AR096: 3, AR104: 2, L0800: 1 and S0428: 1.						49-66
1136	HBCBF11	887008	1146	80 - 733	2551	Ser-57 to Gly-72, Thr-91 to Gly-96,	AR055: 3, AR061: 3, AR033: 3, AR052: 3, AR089: 3, AR060: 2, AR096: 2, AR104: 2, AR053: 1, AR039: 1, S0250: 3, L0659: 3, H0038: 2, S0002: 2, S0330: 2, S0360: 1, H0604: 1, H0634: 1, L0764: 1, L0766: 1, H0660: 1, S0380: 1 and L0751: 1.						125-159

1137	HFOYG86	887019	1147	247 - 570	2552	Arg-26 to Gly-34, Tyr-71 to Lys-77.	Asn-104 to Gln-112, Asp-119 to Lys-126.	AR052: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 1, AR033: 1 H0592: 2, L0754: 2, S0132: 1, H0370: 1, H0587: 1, S0344: 1, L0665: 1, H0682: 1 and H0555: 1.				77-102, 47-68
1138	HKGCI92	887027	1148	504 - 1166	2553	Lys-19 to Val-24, Ser-27 to Asn-37, Asn-82 to Leu-87.		AR039: 3, AR060: 3, AR089: 2, AR096: 2, AR055: 1, AR104: 1, AR033: 1, AR053: 1, AR061: 1, AR052: 0 H0538: 4, S0374: 4, S0444: 2, L0748: 2, S0442: 1, S0358: 1, H0156: 1, L0803: 1, L0774: 1 and L0608: 1.			182-208	
1139	HFPAB23	887054	1149	55 - 417	2554	Met-1 to Ile-11, Ser-21 to Val-26, Asn-42 to Asp-50, Gln-57 to Val-66, Gly-88 to Ala-98.		AR052: 7, AR061: 6, AR104: 5, AR055: 5, AR033: 5, AR060: 5, AR089: 4, AR096: 4, AR053: 2, AR039: 2			103-121	

1140	HWAGL92	887056	1150	769 - 185	2555	Pro-22 to Gly-28, Gln-32 to Gln-38, Ser-60 to Phe-68, Cys-104 to Tyr-110, Lys-163 to Ser-172, Ser-175 to His-182, Gln-185 to Trp-194.	H0171: 2, L0747: 2, H0624: 1, S6016: 1, S0222: 1, S0010: 1, H0620: 1, L0666: 1, L0665: 1 and L0777: 1.				127-160, 80-96, 44- 60
						AR096: 16, AR033: 6, AR039: 6, AR053: 6, AR055: 4, AR052: 4, AR089: 4, AR060: 3, AR061: 2, AR104: 2 H0692: 7, L0766: 5, H0393: 3, H0250: 3, H0581: 3, L0779: 3, L0755: 3, S0354: 2, S0408: 2, L0754: 2, S0358: 1, S0376: 1, S0360: 1, H0640: 1, H0574: 1, H0486: 1, H0013: 1, H0004: 1, H0421: 1, H0239: 1, H0252: 1, H0031: 1, H0553: 1, H0644: 1, H0634: 1, S0144: 1, S0344: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, S0374: 1, H0518: 1, S0044: 1, S0404: 1, H0555: 1, L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0599: 1, H0653: 1 and H0506: 1.					

1141	HADME31	887280	1151	126 - 443	2556		AR096: 6, AR055: 6, AR039: 5, AR089: 5, AR033: 5, AR053: 5, AR060: 5, AR061: 5, AR052: 4, AR104: 3 L0747: 7, L0750: 6, L0770: 4, L0758: 4, L0769: 3, L0774: 2, L0748: 2, L0759: 2, S6024: 1, S0356: 1, S0360: 1, S0408: 1, H0333: 1, H0559: 1, H0486: 1, S0280: 1, H0390: 1, H0545: 1, L0471: 1, S0440: 1, H0641: 1, L0763: 1, L0775: 1, L0783: 1, L0809: 1, H0144: 1, H0690: 1, H0521: 1, S3012: 1, L0749: 1, L0752: 1 and L0590: 1.			88-105
1142	HEGBA84	887341	1152	17 - 1186	2557	Ser-17 to Ser-23, Gly-44 to Pro-50.	AR039: 27, AR033: 17, AR089: 17, AR104: 16, AR053: 16, AR055: 15, AR060: 13, AR052: 12, AR096: 12, AR061: 9 L0769: 5, L0779: 4, L0759: 4, L0770: 3, L0775: 3, L0776: 3, L0439: 3, L0740: 2, L0747: 2, L0777: 2, L0601: 2, S0418: 1, L0429: 1, H0550: 1, H0253: 1, H0081: 1, H0207: 1,			145-162, 116-132

1143	HWHPM7 4	887540	1153	116 - 1048	2558	Gln-71 to Tyr-78, Pro-130 to Ser-135.	H0646: 1, L0764: 1, L0773: 1, L0768: 1, L0549: 1, L0381: 1, L0774: 1, L0375: 1, L0783: 1, S0052: 1, H0547: 1, H0658: 1, H0521: 1, H0555: 1, S0028: 1, L0751: 1, L0752: 1 and L0755: 1.				223-260, 18-34
1144	HHEEU21	887582	1154	49 - 1041	2559	Glu-69 to Glu-74, Thr-78 to Arg-85, Lys-100 to Tyr-107, Pro-185 to Thr-194, Arg-249 to Ser-254, Thr-259 to Arg-269, His-289 to Ile-296, Thr-298 to Asp-303, Asn-312 to Ser-322.	AR096: 10, AR089: 7, AR060: 5, AR055: 5, AR053: 5, AR061: 5, AR039: 4, AR033: 4, AR104: 3, AR052: 2 H0494: 5, L0777: 3, L0747: 2, H0586: 1, H0587: 1, H0038: 1, L0768: 1, L0389: 1, L0775: 1, L0376: 1, L0806: 1, H0519: 1, S0328: 1, S0330: 1, S3014: 1, L0731: 1 and L0758: 1.				221-251, 3-19, 49- 65

1145	HKLSC61	887803	1155	407 - 757	2560	Lys-14 to Ser-20, Pro-34 to Ser-39, Ser-89 to Ser-95.	AR039: 26, AR052: 20, AR053: 16, AR033: 14, AR104: 13, AR060: 12, AR055: 12, AR096: 12, AR061: 12, AR089: 12 H0251: 1, H0235: 1 and S0050: 1.			39-77, 68- 88.
1146	HEOMP62	887943	1156	193 - 753	2561	Gln-13 to Lys-20, Lys-26 to Ala-34, Met-72 to Leu-78.	AR039: 38, AR053: 22, AR096: 20, AR104: 19, AR055: 19, AR033: 17, AR052: 15, AR089: 15, AR060: 11, AR061: 7 H0457: 4, L0794: 3, H0580: 2, S0344: 2, L0667: 2, L0809: 2, H0583: 1, S0116: 1, H0581: 1, H0421: 1, H0439: 1, H0179: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, H0710: 1, S0190: 1 and L0747: 1.			36-69
1147	HLJEB18	888028	1157	328 - 1248	2562	Glu-14 to Ser-22, Thr-70 to Arg-76, Gln-90 to Gly-101, Asn-167 to Ser-172, Glu-179 to Ala-186, Val-193 to Gln-200, Leu-210 to Ser-217, Gln-239 to Gln-244, Glu-254 to Asn-266.	AR039: 61, AR104: 30, AR033: 27, AR053: 25, AR096: 23, AR089: 20, AR052: 20, AR055: 16, AR060: 15, AR061: 13 H0584: 26, H0265: 4, H0167: 3, S0114: 3, H0542: 3, H0556: 2, H0486: 2, T0042: 2, H0423: 2, H0575:			276-307, 104-120

1148	HAMFN18	888042	1158	50 - 412	2563	Ser-31 to Gly-40.	1, H0581: 1, H0375: 1, H0553: 1, H0376: 1, H0591: 1, H0040: 1, H0264: 1, L0774: 1, L0775: 1, S0328: 1, L0754: 1, L0749: 1, L0750: 1 and H0422: 1.				50-68	
1149	HWAEU20	888047	1159	416 - 1183	2564	Ile-74 to Ser-86, Thr-136 to Lys-144, Lys-250 to Glu-256.	AR096: 6, AR089: 6, AR052: 5, AR053: 5, AR033: 4, AR039: 4, AR055: 4, AR060: 3, AR104: 2, AR061: 2 H0497: 1, H0560: 1, S0028: 1 and H0667: 1.				99-126, 23-42, 1- 18, 218- 235, 157- 173, 52-68	
1150	HDPBG11	888121	1160	39 - 734	2565	Val-3 to Pro-8, Val-14 to Ile-19, Pro-23 to Gly-31, Ser-93 to Asp-100.	AR096: 6, AR033: 5, AR053: 4, AR052: 3, AR039: 3, AR089: 2, AR055: 2, AR061: 1, AR060: 1, AR104: 1 H0581: 1 AR060: 6, AR039: 5, AR055: 5, AR089: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 4, AR052: 2, AR104: 2 S0476: 41, H0271: 33, S0132: 14, H0521: 14, S0046: 13, H0623: 13, H0416: 7, H0634: 6, H0575: 5, H0522: 5, S0436: 5,				38-67	

H0638: 4, H0250: 4, H0641: 4, S0053: 4, H0556: 3, H0437: 3, H0069: 3, H0179: 3, H0551: 3, H0056: 3, L0794: 3, S0052: 3, H0159: 2, H0657: 2, H0663: 2, S0278: 2, H0431: 2, H0457: 2, H0719: 2, L0483: 2, H0649: 2, L0771: 2, L0662: 2, H0689: 2, H0518: 2, L0581: 2, H0713: 1, T0049: 1, H0656: 1, S0298: 1, H0662: 1, S0418: 1, S0442: 1, S0358: 1, H0392: 1, H0442: 1, H0587: 1, H0486: 1, T0109: 1, H0190: 1, H0635: 1, H0042: 1, H0530: 1, H0544: 1, H0545: 1, H0150: 1, S0051: 1, S0316: 1, T0023: 1, H0379: 1, S0016: 1, H0560: 1, H0561: 1, H0509: 1, H0633: 1, S0344: 1, S0426: 1, L0763: 1, L3904: 1, L0761: 1, L0667: 1, L0767: 1, L0649: 1, L0388: 1, L0775: 1, L0806: 1, L0805: 1, L0656: 1, L0809: 1, L0790: 1, L0663: 1, L0665: 1, S0428: 1, S0216: 1, H0435: 1,

1151	HHFJ187	888142	1161	204 - 953	2566				H0666: 1, H0672: 1, S0378: 1, H0528: 1, S0044: 1, H0187: 1, S0032: 1, L0749: 1, L0750: 1, L0759: 1, S0434: 1, L0593: 1 and H0422: 1.				136-162, 176-204, 76-95, 108-124, 2-18	
1152	HWLEQ41	888156	1162	93 - 950	2567				AR055: 9, AR039: 5, AR053: 4, AR089: 4, AR060: 4, AR052: 4, AR061: 3, AR033: 3, AR104: 2, AR096: 2, L0666: 6, L0776: 4, H0039: 2, H0622: 2, L0633: 2, L0439: 2, S0354: 1, H0619: 1, H0357: 1, H0590: 1, S0010: 1, H0596: 1, L0644: 1, L0805: 1 and H0144: 1.				158-177, 132-150, 73-91, 193-209, 228-244, 253-269	

1153	HTOIB37	888174	1163	773 - 1582	2568	Thr-155 to Cys-161, Arg-182 to Arg-194, Leu-209 to Lys-214.	1, H0549: 1, H0042: 1, S0474: 1, H0581: 1, H0052: 1, H0083: 1, L0773: 1, L0517: 1, L0383: 1, S0374: 1, S0152: 1, S3014: 1, L0751: 1, L0759: 1, H0543: 1 and H0422: 1. AR060: 57, AR055: 52, AR039: 40, AR104: 39, AR033: 37, AR053: 35, AR089: 30, AR061: 26, AR096: 12, AR052: 6 H0618: 4, H0254: 3, H0255: 3, L0748: 3, H0253: 2, H0617: 2, L0438: 2, L0361: 2, S0442: 1, S0360: 1, S0468: 1, H0370: 1, H0333: 1, H0581: 1, H0252: 1, H0032: 1, H0264: 1, H0413: 1, H0529: 1, L0768: 1, H0672: 1, L0777: 1 and H0542: 1.				76-92, 16- 32, 101- 117, 34- 50, 137- 153
1154	HTGBM16	888244	1164	96 - 1118	2569	Ser-74 to Gln-82, Ser-170 to Asn-178, His-186 to Ala-199, Arg-209 to Leu-216.	AR089: 8, AR060: 8, AR096: 7, AR053: 5, AR104: 5, AR033: 5, AR061: 4, AR055: 3, AR039: 3, AR052: 0 L0748: 3, H0494: 2, H0547: 2, S0134: 1, S0278:				231-250, 2-19, 43- 59, 100- 116

1155	HOUGB95	888279	1165	73 - 795	2570	Glu-69 to Ser-74, Glu-80 to Asp-88, Phe-98 to Leu-104, Gln-140 to Ala-148, Glu-153 to Leu-158, Ala-175 to Ala-197, Met-210 to Leu-223, Glu-225 to Leu-241.	1, H0586: 1, H0575: 1, T0082: 1, H0031: 1, H0644: 1, H0090: 1, H0551: 1, H0144: 1, H0435: 1, L0439: 1, L0755: 1 and L0595: 1. AR033: 3, AR089: 3, AR061: 3, AR060: 2, AR039: 2, AR096: 1, AR052: 1, AR104: 1, AR055: 1, AR053: 0 S0436: 7, H0551: 6, H0599: 5, L0756: 5, L0758: 5, L0759: 5, L0754: 4, L0747: 4, H0545: 3, S0003: 3, L0375: 3, H0144: 3, L0755: 3, S0442: 2, S0045: 2, H0013: 2, L0471: 2, H0373: 2, H0051: 2, H0560: 2, S0422: 2, L0768: 2, L0803: 2, L0659: 2, L0438: 2, L0439: 2, L0740: 2, L0750: 2, L0779: 2, L0757: 2, S0242: 2, H0739: 1, H0624: 1, S0040: 1, S0342: 1, S0116: 1, S0212: 1, S0444: 1, H0357: 1, H0587: 1, L0021: 1, S0010: 1, L0105: 1, S0474: 1, H0544: 1, H0046: 1, S0051: 1, H0266: 1, H0622: 1, H0032:				43-70, 4- 29, 107- 124
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1156	HTELC21	888321	1166	88 - 453	2571			1, H0388: 1, H0598: 1, H0413: 1, S0438: 1, H0641: 1, S0002: 1, L0662: 1, L0805: 1, L0809: 1, L0519: 1, L5623: 1, L0663: 1, L0664: 1, H0520: 1, S0126: 1, L0753: 1, S0434: 1, L0599: 1, S0011: 1 and H0667: 1.			12-37, 50-77, 85-101, 40-56
1157	HTPGV36	888376	1167	2639 - 306	2572	Pro-51 to Ala-59.		AR053: 16, AR039: 15, AR033: 13, AR055: 13, AR052: 10, AR089: 10, AR061: 9, AR096: 7, AR060: 7, AR104: 4, H0253: 8, H0038: 4, H0616: 3, H0618: 2, L0758: 2, L0794: 1 and L0779: 1.	Xp11.23	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050,	555-575, 536-552, 760-776

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										1, H0351: 1, S0278: 1, H0370: 1, H0438: 1, H0333: 1, L0021: 1, H0042: 1, T0082: 1, H0706: 1, L0109: 1, S0049: 1, L0040: 1, H0546: 1, H0569: 1, H0014: 1, H0015: 1, S0051: 1, H0083: 1, H0428: 1, H0622: 1, L0483: 1, H0604: 1, H0213: 1, H0644: 1, H0169: 1, L0455: 1, L0456: 1, H0316: 1, S0036: 1, H0087: 1, H0264: 1, S0038: 1, H0100: 1, L0351: 1, T0042: 1, H0494: 1, H0652: 1, H0538: 1, L0763: 1, L0371: 1, L0796: 1, L0637: 1, L5566: 1, L0641: 1, L0363: 1, L0794: 1, L0651: 1, L0784: 1, L0632: 1, L0805: 1, L0628: 1, L0527: 1, L0540: 1, L0518: 1, L0809: 1, L0647: 1, L0367: 1, L0791: 1, L0792: 1, L0532: 1, L5286: 1, H0682: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, H0696: 1, S0044: 1, H0555: 1, H0626: 1, L0611: 1, H0540: 1, S0037: 1, S3014: 1, S0027:
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1158	HFTDC58	888528	1168	296 - 604	2573			1, S0032: 1, L0754: 1, L0779: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0581: 1, L0593: 1, L0366: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0194: 1 and H0423: 1.				53-73	
								AR052: 2, AR033: 2, AR053: 2, AR096: 1, AR089: 1, AR060: 1, AR039: 0, AR061: 0, AR104: 0 H0599: 2, S0474: 2, H0266: 2, L0759: 2, H0556: 1, H0638: 1, S0418: 1, H0733: 1, S6022: 1, L0021: 1, S0010: 1, H0581: 1, H0123: 1, H0050: 1, H0024: 1, H0553: 1, H0644: 1, H0708: 1, L0763: 1, L0641: 1, L0766: 1, L0805: 1, L0655: 1, H0539: 1, S0028: 1, L0756: 1 and L0777: 1.					
1159	HMUAG30	888542	1169	1399 - 449	2574	Pro-23 to Pro-36, Asp-54 to Asp-61, Gln-67 to Gly-76.		AR033: 5, AR089: 5, AR061: 4, AR052: 4, AR060: 3, AR055: 2, AR053: 2, AR039: 2, AR104: 2, AR096: 1 H0592: 1, H0497: 1,				253-282, 201-228, 124-146, 163-179, 231-247	

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1160	HCBME31	888903	1170	79 - 624	2575	Pro-51 to Ser-58.			AR096: 3, AR055: 2, AR089: 1, AR052: 1, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR033: 1, AR039: 1 S0002: 2, L0785: 1, H0661: 1, H0587: 1, H0635: 1, H0051: 1, S0003: 1, S0438: 1, S0344: 1, L0761: 1, L0649: 1, L0792: 1 and L0731: 1.				70-95, 29-45, 1-17
1161	HPMGA51	888905	1171	1129 - 644	2576	Pro-49 to His-57, Pro-64 to Asp-73, Thr-100 to Arg-106, Lys-145 to Glu-151.			AR055: 4, AR096: 3, AR060: 3, AR053: 3, AR104: 2, AR052: 2, AR033: 2, AR089: 2, AR061: 1, AR039: 0 H0031: 2, L0600: 2, H0713: 1, S0052: 1, H0539: 1, S0436: 1 and L0603: 1.				104-131
1162	HDQDC13	888998	1172	5 - 643	2577	Gln-15 to Gly-23.			AR053: 2, AR052: 1, AR033: 1, AR096: 1, AR089: 0, AR060: 0, AR061: 0, AR055: 0, AR104: 0, AR039: 0 L0766: 7, H0556: 6, L0662: 4, L0789: 4, L0438: 1.	16p12-pl1	108730, 147781, 172471, 186580, 266600, 600760, 600760,	173-189, 105-121	

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1163	HLHFX80	889324	1173	81 - 473	2578	Arg-16 to Ser-25, Phe-30 to Asp-38, Gln-97 to Lys-104, Ser-113 to His-119.	1, H0423: 1 and L0600: 1. AR039: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 0, AR055: 0, AR052: 0 H0556: 1, L0534: 1, H0431: 1, H0024: 1 and S0428: 1.				61-81
1164	HSLKC45	889371	1174	124 - 1245	2579	Ser-75 to Leu-81, Arg-101 to Ala-112, Gln-162 to Asn-172, Tyr-178 to Leu-197, Glu-204 to Arg-219, Arg-252 to Ile-269, Pro-271 to Asp-280, Glu-297 to Lys-303, Glu-313 to Asn-325, Ser-354 to Gly-365.	AR055: 7, AR033: 7, AR060: 5, AR052: 4, AR089: 4, AR061: 4, AR053: 4, AR096: 3, AR104: 2, AR039: 2 H0545: 2, L0659: 2, H0265: 1, H0556: 1, H0295: 1, S0418: 1, S0420: 1, S0358: 1, L0717: 1, H0635: 1, H0551: 1, T0067: 1, H0494: 1, L0662: 1, L0804: 1, L0809: 1, S0126: 1, H0658: 1, H0521: 1, S0390: 1, L0780: 1, L0731: 1, S0436: 1 and H0423: 1.				220-252, 2-26
1165	HOGBN93	889792	1175	503 - 3	2580	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Gly-137.	AR039: 42, AR052: 40, AR053: 25, AR033: 24, AR104: 22, AR089: 20, AR096: 17, AR060: 13, AR061: 13, AR055: 12				59-78, 31- 51, 95- 112, 7-23, 146-162

1166	HTPHE46	889999	1176	96 - 653	2581	Glu-13 to Gln-22, Pro-86 to Asp-91, Arg-98 to Gly-104, Gln-170 to Cys-183.	H0521: 2, L0770: 1, L0766: 1, H0435: 1 and H0712: 1. AR039: 19, AR060: 12, AR096: 10, AR104: 9, AR053: 9, AR055: 9, AR033: 8, AR052: 7, AR089: 7, AR061: 5 S0414: 9, S0422: 7, L0662: 7, S0444: 6, L0748: 4, L0754: 4, L0581: 4, S0442: 3, H0031: 3, L0666: 3, H0656: 2, S0358: 2, S0360: 2, H0013: 2, L0471: 2, S0438: 2, S0440: 2, L0598: 2, L0803: 2, L0540: 2, L0756: 2, L0752: 2, L0758: 2, L0759: 2, S0242: 2, H0624: 1, S0282: 1, H0393: 1, H0586: 1, H0574: 1, H0036: 1, H0004: 1, T0103: 1, T0110: 1, H0571: 1, H0569: 1, H0123: 1, H0594: 1, S6028: 1, H0622: 1, UNKWN: 1, L0649: 1, L0381: 1, L0776: 1, L0659: 1, L0528: 1, L0792: 1, L0793: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0593:					34-58, 63- 83
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1167	HTXQU08	890638	1177	218 - 661	2582	Pro-38 to Arg-44, Leu-88 to His-93, Asp-100 to Ser-106, Pro-119 to Cys-126.	1, H0690: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, L0744: 1, L0731: 1 and S0276: 1.						59-78
							AR055: 7, AR052: 5, AR053: 4, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR033: 3, AR039: 2, AR104: 1 H0271: 8, L0759: 4, L0779: 3, L0755: 3, H0222: 2, H0575: 2, H0705: 2, H0581: 2, L0803: 2, L0659: 2, L0790: 2, L0754: 2, L0749: 2, L0777: 2, H0556: 1, H0159: 1, T0049: 1, H0650: 1, S0045: 1, T0060: 1, H0046: 1, L0163: 1, S0051: 1, H0030: 1, H0553: 1, H0628: 1, H0038: 1, H0268: 1, H0059: 1, S0422: 1, H0529: 1, L0770: 1, L0667: 1, L0800: 1, L0641: 1, L0773: 1, L0662: 1, L0794: 1, L0766: 1, L0650: 1, L0375: 1, L0530: 1, L0791: 1, L0663: 1, S0216:						

1168	HE8MU78	890664	1178	126 - 1160	2583	Cys-21 to Asn-32, Leu-48 to Arg-53, Gln-154 to Leu-161, Pro-213 to Asp-220, Pro-257 to Glu-265, Lys-274 to Asn-281, Ala-326 to Pro-344.	1, S0380: 1, S0027: 1, L0748: 1, L0731: 1, L0757: 1, L0758: 1 and L0591: 1, AR096: 18, AR052: 15, AR089: 10, AR060: 9, AR053: 8, AR104: 5, AR033: 4, AR061: 4, AR055: 3, AR039: 2 T0006: 34, L0753: 8, H0013: 2, L0750: 2, T0082: 1, L0745: 1, L0779: 1 and L0759: 1.				281-316, 1-22
1169	HTNBJ17	890703	1179	498 - 824	2584	Gln-8 to Ser-13, Arg-21 to Ser-27, Glu-37 to Lys-42.	AR055: 5, AR096: 4, AR052: 4, AR053: 3, AR060: 3, AR061: 3, AR089: 3, AR033: 3, AR104: 2, AR039: 0 L0748: 12, L0747: 11, S0358: 10, L0766: 8, L0794: 6, L0740: 6, L0779: 6, H0556: 5, L0803: 5, L0749: 5, H0266: 4, L0743: 4, L0744: 4, L0758: 4, H0624: 3, H0265: 3, L0776: 3, S0404: 3, S3014: 3, L0752: 3, L0731: 3, L0599: 3, H0661: 2, L0005: 2, S0360: 2, H0580: 2, S0046: 2, H0645: 2, H0013: 2,				85-109

	H0599: 2, H0024: 2, H0644: 2, H0634: 2, L0646: 2, L0764: 2, L0527: 2, L0789: 2, L0665: 2, H0144: 2, H0690: 2, H0658: 2, L0750: 2, H0445: 2, L0605: 2, L0601: 2, S0342: 1, H0713: 1, H0717: 1, S0114: 1, S0282: 1, H0125: 1, S0356: 1, S0376: 1, S0045: 1, S0476: 1, H0619: 1, H0393: 1, H0261: 1, H0370: 1, H0592: 1, H0586: 1, H0574: 1, T0109: 1, H0250: 1, H0427: 1, H0575: 1, H0036: 1, S0010: 1, H0318: 1, H0196: 1, H0052: 1, H0309: 1, H0263: 1, H0544: 1, H0457: 1, H0050: 1, H0051: 1, S0024: 1, H0179: 1, S0003: 1, H0673: 1, H0674: 1, H0212: 1, H0124: 1, S0366: 1, H0135: 1, H0551: 1, T0067: 1, H0264: 1, H0413: 1, H0641: 1, L0769: 1, L0637: 1, L0761: 1, L0667: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0774: 1, L0775: 1, L0805: 1, L0655: 1, L0513: 1.					
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1170	HTTJZ84	890714	1180	1309 - 311	2585	Leu-2 to Asn-7, Glu-129 to Gly-137, Glu-279 to Lys-284, Pro-318 to Leu-333.	L0659: 1, L0517: 1, L0647: 1, L0787: 1, L0666: 1, L0663: 1, S0428: 1, H0547: 1, H0519: 1, H0689: 1, H0435: 1, H0670: 1, H0539: 1, S0152: 1, L0777: 1, L0755: 1, L0757: 1, S0436: 1, S0276: 1 and H0543: 1. AR055: 4, AR033: 3, AR061: 3, AR096: 3, AR052: 2, AR060: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 0 S0474: 4, S0052: 4, H0265: 3, S0046: 3, S0344: 3, T0007: 2, S0132: 2, S0476: 2, H0253: 2, H0545: 2, H0551: 2, H0412: 2, L5623: 2, L0777: 2, L0757: 2, L0588: 2, S0446: 2, H0664: 1, H0489: 1, H0069: 1, H0635: 1, H0706: 1, H0618: 1, H0318: 1, H0581: 1, H0544: 1, H0023: 1, H0247: 1, H0271: 1, H0424: 1, H0628: 1, H0617: 1, H0634: 1, S0142: 1, S0210: 1, L0646: 1, L0773: 1, L0768: 1, L0804: 1, L0659: 1, L0666: 1, L0665: 1,						111-127, 205-221, 238-254
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									S0428: 1, H0435: 1, S0330: 1, H0521: 1, H0576: 1, S0027: 1, L0731: 1 and H0667: 1.				207-239, 39-61, 156-182, 119-138, 84-101, 256-273, 63-79
1171	HLYBD96	890826	1181	23 - 964	2586		Phe-30 to Cys-36.		AR055: 429, AR060: 304, AR033: 260, AR061: 208, AR089: 197, AR052: 148, AR104: 145, AR096: 138, AR053: 92, AR039: 64 L0794: 2, H0581: 1, H0179: 1, S0036: 1, L0789: 1, L0777: 1 and H0445: 1.				
1172	HDPPJ68	891362	1182	259 - 1230	2587		Gly-34 to Leu-39, His-41 to Pro-49, Gly-62 to Arg-67, Thr-80 to Gln-88, Met-181 to Glu-191, Leu-197 to Arg-206.		AR033: 4, AR060: 4, AR104: 2, AR061: 2, AR052: 1, AR089: 1, AR096: 0, AR053: 0, AR055: 0 L0761: 5, L0800: 4, L0794: 3, L0766: 3, L0803: 3, L0483: 2, H0264: 2, L0773: 2, L0789: 2, H0521: 2, L0748: 2, L0779: 2, L0758: 2, H0556: 1, S0114: 1, S0116: 1, S0282: 1, S0476: 1, H0497: 1, S6028: 1, H0288: 1, L0520: 1, L0764: 1, L0560: 1, L0552: 1, L0774: 1, L0523: 1, S0126: 1, H0522: 1, L0777: 1				293-321, 88-109, 125-150, 12-33, 229-245, 269-285, 158-174

1173	HTTJT40	891742	1183	211 - 654	2588	Phe-61 to His-66.	1, L0759: 1, S0031: 1 and L0480: 1. AR039: 47, AR053: 32, AR052: 30, AR055: 29, AR033: 27, AR104: 27, AR089: 26, AR096: 20, AR060: 18, AR061: 12 L0771: 3, L0766: 3, L0783: 3, L0748: 3, L0749: 3, L0757: 3, L0758: 3, L0595: 3, H0031: 2, H0673: 2, L0369: 2, L0769: 2, S0374: 2, L0438: 2, H0547: 2, H0658: 2, H0696: 2, L0439: 2, L0750: 2, L0777: 2, L0596: 2, L0592: 2, H0543: 2, H0265: 1, H0713: 1, S0116: 1, H0661: 1, H0176: 1, S0444: 1, S0045: 1, H0640: 1, H0013: 1, S0010: 1, H0318: 1, H0232: 1, H0546: 1, H0065: 1, H0566: 1, H0024: 1, H0083: 1, H0266: 1, T0006: 1, H0617: 1, L0055: 1, H0165: 1, L0456: 1, H0040: 1, H0634: 1, H0551: 1, T0067: 1, H0100: 1, T0041: 1, H0560: 1, S0438: 1, S0440: 1, H0641: 1, S0144: 1,					1-27, 97- 118
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1174	HETDR50	891862	1184	650 - 120	2589	Ser-16 to Arg-23, Ser-152 to Asn-161, Thr-165 to Thr-170.	L0762: 1, L0763: 1, L0772: 1, L0648: 1, L0363: 1, L0767: 1, L0768: 1, L0651: 1, L0776: 1, L0636: 1, L0809: 1, L0545: 1, L0647: 1, L0793: 1, L0664: 1, H0435: 1, H0648: 1, H0436: 1, S3014: 1, S0206: 1, L0742: 1, L0779: 1, L0752: 1, L0731: 1, S0260: 1, H0445: 1, S0434: 1, S0436: 1 and S0194: 1.	20p13	192340, 234200	43-74, 132-149, 24-41, 93- 109	
1175	HSLFZ79	892016	1185	173 - 1513	2590	Arg-171 to Thr-176, Met-216 to Asn-221, Glu-229 to Lys-235, Arg-348 to Trp-353,	AR055: 9, AR033: 9, AR060: 9, AR052: 7, AR104: 6, AR053: 6, AR061: 6, AR089: 6, AR096: 5, AR039: 3 H0090: 3, H0013: 2, H0046: 2, H0624: 1, H0170: 1, L0459: 1, S0222: 1, H0427: 1, S0010: 1, H0251: 1, H0596: 1, H0050: 1, H0014: 1, S0214: 1, H0412: 1, L0439: 1, L0759: 1 and S0436: 1.			1-26, 98- 119, 54- 75, 308- 324, 145-	

						Glu-372 to Thr-381, Lys-392 to Asp-398, Lys-435 to Glu-444.	AR104: 3, AR052: 2 L0748: 8, L0731: 8, L0747: 6, L0439: 4, L0779: 4, L0777: 4, H0341: 2, S0001: 2, S0386: 2, L0769: 2, L0771: 2, L0662: 2, L0803: 2, L0806: 2, L0776: 2, L0783: 2, L0666: 2, L0740: 2, L0758: 2, S0242: 2, S0040: 1, S0116: 1, H0497: 1, H0013: 1, H0599: 1, H0036: 1, H0620: 1, S0051: 1, T0010: 1, H0266: 1, H0316: 1, H0359: 1, S0438: 1, L0770: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0794: 1, L0375: 1, L0652: 1, L0657: 1, L0659: 1, L0526: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0648: 1, S0330: 1, S0380: 1, S0028: 1, L0749: 1, L0752: 1, L0759: 1, L0589: 1, L0608: 1, S0026: 1, S0196: 1 and S0446: 1.				161, 123- 139
1176	HDQGN46	892018	1186	265 - 1308	2591	Asp-53 to Tyr-61, Pro-105 to Ile-128, Arg-133 to Leu-140, Gln-182 to Ala-188.	AR053: 3, AR089: 1, AR033: 1, AR052: 1, AR096: 1, AR055: 1, AR060: 1, AR104: 1.			262-291, 4-27, 78- 96	

1177	HDPRH64	892038	1187	820 - 155	2592	Pro-205 to Asn-218, Gly-259 to Ala-264, Asn-290 to Ser-302, Glu-307 to Tyr-314, Tyr-317 to Lys-332.	AR061: 0, AR039: 0 H0521: 5, L0804: 2, H0634: 1, S0440: 1 and H0522: 1.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279	105-131, 48-70, 132-155, 165-181, 79-95, 1- 17
						Trp-98 to Arg-105, Trp-156 to Cys-162, Glu-184 to Met-205, Gln-207 to Val-216.	AR096: 3, AR060: 2, AR089: 2, AR033: 1, AR052: 1, AR061: 1, AR104: 0 L0740: 15, L0758: 6, H0539: 5, H0521: 4, L0744: 4, L0754: 4, S0434: 4, L0803: 3, L0774: 3, L0666: 3, L0748: 3, L0439: 3, L0752: 3, S0002: 2, S0426: 2, L0651: 2, L0659: 2, H0170: 1, S0354: 1, S0358: 1, S0360: 1, T0008: 1, T0060: 1, H0575: 1, H0618: 1, H0309: 1, H0457: 1, S0250: 1, H0553: 1, H0100: 1, H0494: 1, S0142: 1, L0369: 1, L0638: 1, L0761: 1, L0645: 1, L0771: 1, L0363: 1, L0767: 1, L0768: 1, L0775: 1, L0806: 1, L0776: 1, L0809: 1, L0663: 1, L0438: 1, H0689: 1, H0670: 1, S0390: 1, L0745: 1, L0746: 1, L0749: 1,			

1178	HPIAN49	892164	1188	70 - 1296	2593	Ser-52 to Arg-57, Gln-94 to Ser-99, Pro-191 to Gly-196, Thr-399 to Leu-406.	L0593: 1, H0136: 1, S0196: 1, H0423: 1 and S0456: 1. AR061: 4, AR052: 3, AR089: 2, AR060: 2, AR055: 2, AR096: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 S0028: 6, S0260: 4, S0282: 3, S0031: 3, L0005: 2, L0476: 2, S0278: 2, H0592: 2, H0318: 2, H0617: 2, S0144: 2, S0428: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0005: 1, H0331: 1, S0049: 1, S0050: 1, H0416: 1, S0036: 1, H0164: 1, H0056: 1, S0150: 1, S0216: 1, S0044: 1, S0146: 1 and S0194: 1.				284-312, 1-22, 373- 398, 65- 84, 316- 332, 354- 370, 26-42
1179	HDPVB49	892654	1189	353 - 1336	2594	Val-14 to Lys-20, Gly-24 to Gly-31, Ala-33 to Val-40, Glu-140 to Phe-156, Ala-171 to Gln-184, Glu-300 to Lys-305.	AR055: 1, AR061: 1, AR060: 1, AR104: 1, AR033: 1, AR089: 1, AR052: 0, AR096: 0, AR053: 0, AR039: 0 H0521: 16, L0748: 13, L0655: 4, H0522: 4, H0575: 3, L0775: 3, L0754: 3, S0010: 2, H0644: 2, L0776: 11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,			271-297, 114-138, 184-205, 224-244, 49-65, 88- 104

1180	HPJCP79	892826	1190	18 - 944	2595	Asp-25 to Gly-38, Leu-167 to Ser-172, Leu-277 to Ser-291.	2, L0666: 2, L0758: 2, L0605: 2, H0255: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0438: 1, S0280: 1, H0036: 1, H0309: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, T0010: 1, H0375: 1, H0328: 1, T0006: 1, L0143: 1, H0063: 1, S0112: 1, S0142: 1, S0344: 1, L0770: 1, L0646: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0606: 1, L0659: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, H0555: 1, L0439: 1, L0750: 1, L0756: 1, L0777: 1 and S0436: 1. AR052: 6, AR055: 5, AR060: 5, AR033: 4, AR053: 4, AR089: 4, AR096: 4, AR104: 3, AR061: 3, AR039: 2 L0752: 4, L0754: 2, L0755: 2, H0265: 1, H0556: 1, T0040: 1, H0052: 1, H0544: 1, T0023: 1, H0591: 1, S0038: 1, H0100: 1, L0662: 1, L0663: 1, S0126: 1, S0152: 1, H0521: 1,			164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884		183-199, 5-21, 129- 145, 221- 237
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1181	HHEVK59	893348	1191	297 - 743	2596	Ser-76 to Thr-84, Ala-126 to Glu-132.	L0744: 1 and H0653: 1. AR039: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR096: 3, AR055: 3, AR060: 3, AR061: 2, AR104: 2 L0439: 10, L0803: 7, L0777: 7, H0052: 6, L0766: 6, S0356: 4, L0794: 4, L0751: 4, L0747: 4, L0731: 4, H0013: 3, H0551: 3, L0770: 3, L0805: 3, L0776: 3, L0665: 3, L0744: 3, L0748: 3, L0740: 3, L0754: 3, L0759: 3, S0222: 2, H0586: 2, H0156: 2, H0599: 2, H0163: 2, H0616: 2, S0002: 2, H0529: 2, L0768: 2, L0789: 2, H0144: 2, L0438: 2, H0682: 2, H0672: 2, L0749: 2, L0750: 2, L0755: 2, S0436: 2, L0591: 2, L0599: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, H0583: 1, H0657: 1, S0212: 1, S0408: 1, S0007: 1, L0717: 1, H0549: 1, H0370: 1, H0575: 1, S0010: 1, H0546: 1, H0545: 1, H0009: 1, H0050: 1, H0620:	5p15.1-p14	108962, 123000	82-110, 132-148, 12-28
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1182	HMKAK61	893374	1192	121 - 1197	2597	Gly-26 to Asp-32, Phe-53 to Leu-58, Asn-63 to Arg-86, Ser-91 to Gln-99, Gly-133 to Asn-139, Glu-144 to Arg-151, Asp-242 to His-250, Pro-319 to Asp-326, Asn-352 to Lys-358.	1, H0201: 1, S0051: 1, H0083: 1, S6028: 1, H0286: 1, H0622: 1, S0364: 1, H0135: 1, H0412: 1, H0494: 1, S0142: 1, S0210: 1, S0422: 1, L0796: 1, L3904: 1, L0646: 1, L0800: 1, L0764: 1, L0767: 1, L0804: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L5623: 1, L0787: 1, L0666: 1, S0052: 1, H0519: 1, H0365: 1, H0435: 1, H0659: 1, S0380: 1, S0037: 1, S0027: 1, S0028: 1, S0032: 1, H0445: 1, L0592: 1, S0011: 1, S0194: 1, H0543: 1 and H0423: 1.				218-235
						AR089: 36, AR039: 31, AR053: 25, AR033: 22, AR096: 20, AR052: 19, AR104: 17, AR060: 16, AR055: 14, AR061: 10 S0358: 11, S0406: 9, S0442: 6, S0440: 3, L0740: 3, S0408: 2, S0046: 2, H0421: 2, H0597: 2, S0210: 2, L0518: 2, S0374: 2, S0328: 2, S0027: 2, L0755: 2, H0445: 2, S0436: 2,					

1183	HWADM6 5	893492	1193	145 - 738	2598		L0596: 2, H0717: 1, H0716: 1, H0294: 1, S0114: 1, T0049: 1, H0341: 1, S0282: 1, H0484: 1, H0663: 1, S0420: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, H0392: 1, H0497: 1, T0039: 1, T0109: 1, H0427: 1, H0618: 1, S0010: 1, S0049: 1, H0052: 1, H0014: 1, H0266: 1, S0003: 1, T0023: 1, H0673: 1, H0494: 1, H0633: 1, S0144: 1, S0344: 1, S0422: 1, S0002: 1, L0764: 1, L0542: 1, L5623: 1, S0148: 1, H0520: 1, S0330: 1, H0696: 1, L0743: 1, L0744: 1, L0748: 1, L0750: 1, L0757: 1, L0608: 1, L0601: 1, H0667: 1, S0196: 1, H0542: 1 and H0543: 1.				41-75
							AR096: 5, AR053: 5, AR060: 4, AR052: 4, AR033: 3, AR055: 3, AR089: 2, AR061: 2, AR104: 2, AR039: 1 H0038: 2, S0114: 1, H0650: 1, H0341: 1, H0125: 1, H0581: 1, L0761: 1,				

1184	HLQFF81	893535	1194	168 - 530	2599	Gly-103 to Ser-114.	L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0758: 1 and H0136: 1. AR055: 10, AR052: 6, AR053: 6, AR060: 5, AR089: 5, AR033: 5, AR061: 4, AR096: 4, AR039: 4, AR104: 4 L0805: 6, L0766: 5, L0758: 5, L0803: 4, L0794: 3, L0439: 3, L0774: 2, L0776: 2, L0517: 2, L0748: 2, L0751: 2, L0777: 2, L0731: 2, L0608: 2, L0594: 2, H0170: 1, H0171: 1, H0657: 1, H0656: 1, S0442: 1, H0369: 1, H0261: 1, S0222: 1, H0574: 1, H0632: 1, T0040: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0046: 1, L0126: 1, S0051: 1, S6028: 1, L0142: 1, H0628: 1, H0090: 1, H0038: 1, H0269: 1, H0100: 1, S0438: 1, H0633: 1, L0369: 1, L0637: 1, L3905: 1, L0761: 1, L0768: 1, L0649: 1, L0804: 1, L0652: 1, L0653: 1, L0659: 1, L0809: 1, L0788: 1, L0789:			66-86, 21- 37
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1185	HDPIG80	893789	1195	207 - 791	2600	Pro-101 to Gly-109.	1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1. AR039: 12, AR104: 12, AR033: 10, AR089: 9, AR096: 8, AR055: 7, AR060: 7, AR052: 7, AR053: 7, AR061: 5 L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0028: 2, L0751: 2, L0749: 2, L0595: 2, T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0592: 1, H0587: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, H0561: 1, H0509:					146-169, 52-70, 171-187, 24-40, 114-130
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1186	HOELW53	893798	1196	1829 - 1284	2601	Trp-2 to Pro-20, Gln-160 to Asp-182.	1, S0210: 1, H0529: 1, L0763: 1, L0770: 1, L0639: 1, L3904: 1, L0646: 1, L0643: 1, L0771: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0378: 1, L0805: 1, L0527: 1, L0382: 1, L0530: 1, L0666: 1, H0547: 1, H0711: 1, H0682: 1, S0380: 1, H0521: 1, H0696: 1, S0406: 1, L0754: 1, L0777: 1, L0755: 1, H0667: 1, S0192: 1 and S0242: 1.					101-122, 62-83, 132-150, 43-60, 23- 39
							AR053: 81, AR039: 79, AR052: 74, AR096: 62, AR033: 51, AR089: 50, AR055: 49, AR104: 49, AR060: 34, AR061: 24 L0794: 14, L0809: 9, L0731: 8, L0747: 7, L0759: 7, H0556: 6, L0769: 6, L0758: 5, H0547: 4, L0749: 4, L0755: 4, H0586: 3, S0002: 3, L0770: 3, L0804: 3, L0659: 3, H0521: 3, L0439: 3, L0750: 3, L0605: 3, H0265: 2, H0341: 2, S0418: 2, S0360: 2, H0637: 2, H0580: 2, S0046: 2,					

	H0643: 2, H0618: 2, H0083: 2, H0561: 2, L0761: 2, L0767: 2, L0775: 2, H0144: 2, S0126: 2, L0740: 2, L0751: 2, L0757: 2, H0713: 1, H0656: 1, L0785: 1, S0001: 1, S0282: 1, H0661: 1, S0356: 1, S0376: 1, S0045: 1, H0619: 1, S0278: 1, S0222: 1, H0607: 1, H0253: 1, H0009: 1, H0050: 1, H0620: 1, H0071: 1, T0010: 1, H0099: 1, H0615: 1, H0428: 1, H0135: 1, H0090: 1, H0591: 1, H0551: 1, H0413: 1, H0056: 1, H0623: 1, L0564: 1, L0475: 1, H0509: 1, H0646: 1, S0344: 1, H0529: 1, L0369: 1, L0667: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0378: 1, L0805: 1, L0661: 1, L0657: 1, L0788: 1, L0663: 1, L0665: 1, S0374: 1, L0438: 1, H0682: 1, H0648: 1, S0380: 1, H0710: 1, H0478: 1, L0754: 1, L0599: 1, H0668: 1, S0026: 1, H0136: 1 and H0008: 1.
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1187	HUSID53	893863	1197	50 - 394	2602	Lys-9 to Arg-16, Gly-37 to Asn-45.	AR096: 3, AR052: 2, AR060: 2, AR104: 1, AR089: 1, AR033: 1, AR053: 1, AR061: 1, AR055: 1, AR039: 0 H0522: 2, H0052: 1, H0412: 1, L0794: 1, L0803: 1, H0651: 1, H0521: 1, L0748: 1, L0749: 1 and L0752: 1.				51-68
1188	HDPFZ30	894151	1198	110 - 880	2603		AR039: 7, AR033: 6, AR089: 5, AR053: 5, AR055: 4, AR096: 4, AR104: 4, AR052: 4, AR060: 3, AR061: 3 H0250: 5, H0580: 2, L0770: 2, L0438: 2, L0439: 2, L0754: 2, S0114: 1, H0459: 1, H0489: 1, S0278: 1, H0069: 1, H0318: 1, H0123: 1, L0471: 1, H0071: 1, H0328: 1, H0634: 1, T0067: 1, L0351: 1, H0560: 1, S0142: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0761: 1, L0662: 1, L0363: 1, L0364: 1, L0794: 1, L0805: 1, L0789: 1, L0666: 1, L0664: 1, S0126: 1, H0658: 1, H0670: 1,				193-212, 23-43, 48- 74, 83- 101, 103- 119, 164- 180

1189	HE8CW35	894153	1199	22 - 555	2604	Met-1 to Lys-19, Lys-29 to Gly-58, Ala-60 to Gly-88, Ala-90 to Asp-97.	H0521: 1, H0522: 1, S0044: 1, H0555: 1, H0576: 1, L0748: 1 and L0755: 1. AR033: 21, AR089: 6, AR060: 5, AR061: 2, AR104: 1, AR055: 1, AR096: 0, AR039: 0 H0013: 2, S0051: 2, H0333: 1, H0156: 1, S0049: 1, H0424: 1, L0455: 1, L0768: 1, L0517: 1, L0783: 1, L0809: 1 and L0666: 1.				144-166
1190	HE9SE46	894178	1200	332 - 1066	2605	Ala-29 to Asp-35, Pro-81 to Cys-89, Leu-108 to Gly-119, Glu-125 to Ala-138, Ser-140 to Asn-146, Asp-163 to Glu-174, Ser-180 to Gly-187, Lys-224 to Arg-229, Ile-231 to Tyr-238.	AR033: 2, AR061: 1, AR055: 1, AR089: 1, AR052: 1, AR060: 1, AR053: 1, AR104: 0, AR096: 0, AR039: 0 L0776: 21, L0777: 14, L0439: 12, L0752: 9, L0438: 8, L0591: 7, L0805: 5, L0771: 4, L0803: 4, L0774: 4, S0360: 3, H0013: 3, L0731: 3, L0415: 2, H0052: 2, H0024: 2, S0386: 2, L0663: 2, L0745: 2, L0756: 2, L0596: 2, L0608: 2, S0212: 1, S0222: 1, H0586: 1, H0156: 1, H0596: 1, H0050: 1, S0050: 1,				192-221

1191	HBHMH72	894186	1201	38 - 1711	2606	Ser-2 to Ala-10, Glu-12 to Leu-17, Gly-21 to Val-38.	H0373: 1, S0051: 1, S6028: 1, H0188: 1, S0003: 1, H0031: 1, S0448: 1, S0306: 1, S0440: 1, L0369: 1, L0763: 1, L0773: 1, L0381: 1, L0775: 1, L0659: 1, H0144: 1, T0068: 1, H0547: 1, H0660: 1, S0330: 1, S0406: 1, L0754: 1, L0746: 1, L0750: 1, L0779: 1, L0755: 1, S0260: 1 and H0665: 1.					219-235, 513-529, 66-82, 190-206, 41-57
							AR096: 2, AR039: 1, AR033: 1, AR089: 0, AR061: 0, AR053: 0, AR104: 0, AR060: 0 L0749: 5, H0052: 3, H0688: 3, H0090: 3, L0744: 3, L0748: 3, L0439: 3, H0341: 2, L0005: 2, L0665: 2, H0593: 2, L0743: 2, L0751: 2, L0599: 2, T0002: 1, S6024: 1, H0722: 1, S0220: 1, T0040: 1, H0013: 1, H0318: 1, H0251: 1, T0110: 1, H0375: 1, H0266: 1, H0687: 1, L0142: 1, S0112: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0772: 1, L0768: 1, L0766:					

1192	HWAHA1 1	894203	1202	90 - 614	2607					1, L5564: 1, L0776: 1, S0310: 1, L0438: 1, S0152: 1, H0521: 1, H0187: 1, H0576: 1, S0027: 1, L0740: 1, L0750: 1, L0596: 1, L0591: 1 and L0592: 1.				111-133, 43-63, 72- 98, 137- 160
										AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1, L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.				

1193	HLWAH05	894289	1203	652 - 1503	2608		AR061: 2, AR053: 2, AR096: 2, AR060: 1, AR089: 1, AR052: 1, AR033: 1, AR104: 1, AR039: 1, AR055: 0 H0586: 5, L0751: 2, H0170: 1, H0662: 1, H0638: 1, H0575: 1, H0271: 1, H0553: 1, H0477: 1, H0641: 1, S0002: 1, H0529: 1, L0641: 1, L0803: 1, L0793: 1, H0547: 1, H0689: 1 and H0543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	148-164
1194	HUJCH47	894599	1204	687 - 1283	2609		AR052: 4, AR053: 3, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR096: 0, AR089: 0, AR039: 0, AR104: 0 H0650: 1, S0420: 1 and H0599: 1.			85-101
1195	HDPCI84	894601	1205	120 - 1091	2610	Leu-90 to Gln-96, Asp-109 to Thr-114, Ile-126 to Lys-133, Val-194 to Arg-207, Asp-219 to Asp-234, Glu-296 to Tyr-304.	AR053: 3, AR060: 3, AR089: 2, AR052: 2, AR039: 2, AR055: 2, AR096: 1, AR033: 1, AR104: 1, AR061: 1 H0521: 4, L0803: 3, S0358: 2, H0489: 2, H0046: 2, S0440: 2, L0794: 2, L0666: 2, H0144: 2, S0126:			138-154

1196	HCRPU72	894605	1206	77 - 799	2611	Gly-25 to Thr-37, Asn-100 to Gly-107, Leu-147 to Asn-153, Ser-185 to Ser-192, Ser-207 to Lys-220.	2, S0342: 1, H0663: 1, S0356: 1, S0408: 1, H0013: 1, L0021: 1, H0705: 1, H0150: 1, H0266: 1, H0039: 1, H0622: 1, H0038: 1, H0551: 1, S0422: 1, L0598: 1, L0646: 1, L0766: 1, L0653: 1, L0656: 1, L0789: 1, L0532: 1, L0663: 1, H0658: 1, L0748: 1, L0777: 1, L0759: 1, S0434: 1, L0596: 1 and H0506: 1.					154-170
1197	HFTCG52	894736	1207	403 - 723	2612	Trp-4 to Asn-18, Pro-32 to Leu-39.	AR039: 27, AR033: 16, AR053: 15, AR089: 14, AR052: 13, AR096: 12, AR055: 10, AR104: 9, AR060: 8, AR061: 7 H0144: 6, H0013: 2 and S0356: 1. AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 10, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2,					48-65, 81- 97

H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1.

1198	HBINP48	894737	1208	252 - 644	2613		L0757: 1, S0436: 1 and S0194: 1. AR033: 11, AR061: 11, AR089: 8, AR060: 6, AR104: 5, AR055: 4, AR096: 3, AR052: 3, AR053: 2, AR039: 1 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1,			55-73, 6- 22, 82-98, 24-40
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1199	HCQDE22	894831	1209	326 - 841	2614	Ile-128 to Gly-134, Phe-145 to Thr-150.	H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0559: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0520: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.					25-53, 88- 104, 8-24, 52-68
1200	HKGCH22	894999	1210	65 - 502	2615	Met-1 to Arg-8, Arg-57 to Arg-65, Pro-139 to Thr-146.	AR055: 10, AR060: 6, AR052: 6, AR033: 5, AR061: 4, AR053: 4, AR096: 3, AR089: 3, AR104: 2, AR039: 1 H0596: 1 and L0749: 1. AR039: 37, AR052: 24, AR053: 19, AR033: 18, AR096: 16, AR104: 16, AR089: 15, AR055: 11, AR060: 10, AR061: 9 L0794: 2, L0663: 2, L0665: 2, S0360: 1, H0042: 1, H0253: 1, H0150: 1, H0038: 1, H0633: 1, S0142:					9-27, 106- 123, 79- 95, 29-45

1201	HTPGG10	895024	1211	111 - 530	2616	Ser-29 to Ser-34.	1, H0538: 1, L0804: 1, L0657: 1, L0790: 1, L0791: 1, L0666: 1, L0664: 1, H0519: 1, H0659: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0755: 1 and L0731: 1.				1-29, 114- 137, 81- 101, 35-51
							AR055: 8, AR060: 7, AR061: 4, AR053: 4, AR089: 3, AR052: 3, AR033: 3, AR039: 3, AR104: 2, AR096: 1 H0622: 7, S0360: 3, L0809: 3, L0804: 2, L0774: 2, L0775: 2, L0748: 2, H0484: 1, H0014: 1, S0440: 1, L0646: 1, L0643: 1, L0374: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0803: 1 and L0788: 1.				
1202	HFPHB92	895129	1212	276 - 620	2617	Lys-108 to Ser-113.	AR033: 8, AR055: 7, AR104: 5, AR039: 5, AR060: 5, AR053: 4, AR052: 4, AR089: 4, AR061: 3, AR096: 1 L0745: 12, L0803: 5, L0746: 4, L0749: 4, H0052: 3, L0776: 2, H0547: 2, L0756: 2, S0222: 1, H0431:				1-20, 24- 47, 72-99

1203	HLWBY26	895166	1213	61 - 1158	2618	Pro-21 to Pro-39.	1, S0346: 1, L0471: 1, H0051: 1, S0036: 1, L0770: 1, L0658: 1, L0666: 1, H0519: 1, H0555: 1 and L0779: 1. AR039: 42, AR053: 26, AR033: 20, AR052: 19, AR096: 19, AR055: 18, AR104: 17, AR089: 17, AR060: 12, AR061: 9 H0545: 11, H0716: 4, H0333: 4, L0794: 4, L0754: 4, H0544: 3, H0546: 3, L0743: 3, L0744: 3, L0757: 3, H0713: 2, S0212: 2, S0360: 2, H0619: 2, H0124: 2, L0771: 2, L0521: 2, S0027: 2, L0751: 2, L0777: 2, L0605: 2, H0550: 1, L0623: 1, H0013: 1, H0150: 1, H0086: 1, H0123: 1, H0288: 1, H0553: 1, H0644: 1, H0628: 1, H0181: 1, H0163: 1, H0087: 1, H0551: 1, H0100: 1, L3904: 1, L0803: 1, L0655: 1, L0656: 1, L0659: 1, L0384: 1, L0809: 1, L0565: 1, H0547: 1, H0658: 1, S0037: 1, S0028: 1, S0206: 1, L0603:						292-323
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1204	HKAHR43	895539	1214	105 - 2606	2619	Cys-132 to Gly-138, Asn-176 to Met-183, Leu-217 to Val-222, Gln-349 to Thr-354, Glu-406 to Tyr-414, Gln-416 to Tyr-424, Arg-457 to Lys-466, Gln-545 to Glu-552, Gln-576 to Gln-586, His-669 to Val-674, Lys-801 to Thr-821.	1 and H0665: 1. AR096: 9, AR061: 7, AR052: 6, AR053: 5, AR089: 5, AR039: 4, AR033: 3, AR104: 3, AR060: 3, AR055: 3 L0771: 6, H0494: 4, S0358: 3, L0803: 3, L0518: 2, L0666: 2, S0354: 1, H0239: 1, H0553: 1, H0181: 1, H0617: 1, H0488: 1, L0648: 1, L0662: 1, L0774: 1, L0659: 1, L0665: 1, H0658: 1, H0648: 1, S0152: 1, S0404: 1 and S0434: 1.			145-176, 422-454, 471-506, 101-131, 779-801, 2-23, 246- 262
1205	HLDCE43	895550	1215	145 - 627	2620		AR033: 28, AR053: 27, AR089: 23, AR052: 20, AR039: 20, AR055: 14, AR060: 13, AR061: 12, AR096: 10, AR104: 8 L0751: 7, L0789: 5, L0758: 4, S0356: 3, L0663: 3, H0539: 3, S0418: 2, H0545: 2, H0594: 2, H0424: 2, H0494: 2, S0440: 2, L0806: 2, L0664: 2, H0648: 2, S0380: 2, S0028: 2, L0754: 2, L0749: 2, L0777: 2, L0595: 2, H0556: 1,			98-115, 132-149, 18-34

T0002: 1, H0685: 1, H0295: 1, H0294: 1, S0001: 1, H0484: 1, S0348: 1, S0360: 1, S0046: 1, S0132: 1, H0550: 1, H0592: 1, H0587: 1, H0333: 1, H0492: 1, L0622: 1, H0156: 1, H0575: 1, H0618: 1, H0581: 1, H0309: 1, H0050: 1, L0471: 1, H0620: 1, H0024: 1, H0051: 1, S0051: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0628: 1, H0040: 1, H0268: 1, H0056: 1, T0042: 1, H0561: 1, H0509: 1, H0647: 1, S0344: 1, S0210: 1, H0529: 1, L0763: 1, L0770: 1, L0639: 1, L3904: 1, L0646: 1, L0643: 1, L0771: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0378: 1, L0805: 1, L0527: 1, L0382: 1, L0809: 1, L0530: 1, L0666: 1, H0547: 1, H0711: 1, H0682: 1, H0670: 1, H0521: 1, H0696: 1, S0406: 1, L0755: 1, L0605: 1, H0667: 1, S0192: 1 and S0242: 1.
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1206	HFXKW18	895626	1216	528 - 2336	2621	Ala-39 to Arg-46, Lys-76 to Ile-81, Asn-143 to Trp-149, Asp-154 to Lys-173.	AR061: 3, AR096: 2, AR052: 1, AR089: 1, AR053: 1, AR060: 1, AR039: 1, AR055: 1, AR104: 0, AR033: 0 H0250: 3, S0031: 3, H0271: 2, S0260: 2, S0001: 1, S0282: 1, H0617: 1, L0367: 1, S0053: 1, S0390: 1, L0698: 1 and H0352: 1.			6-35, 281- 309, 393- 410, 573- 589, 84- 100, 432- 448, 542- 558
1207	HSKCP67	895644	1217	299 - 814	2622	Pro-4 to Gln-10, Pro-22 to Arg-28, Glu-63 to Arg-86.	AR055: 8, AR052: 6, AR060: 5, AR033: 4, AR061: 4, AR089: 3, AR096: 3, AR053: 3, AR039: 2, AR104: 2 H0333: 2, L0758: 2, H0619: 1, H0618: 1, H0505: 1, S0051: 1, H0271: 1, S0142: 1, S0027: 1 and L0742: 1.			138-163, 95-118
1208	HGGOJ26	895700	1218	652 - 332	2623	Met-1 to Arg-6.	AR055: 11, AR033: 7, AR060: 6, AR052: 6, AR089: 6, AR061: 5, AR096: 4, AR053: 4, AR104: 2, AR039: 2 H0618: 11, L0743: 8, L0748: 6, L0754: 6, L0731: 6, H0545: 5, H0052: 4, H0546: 4, L0648: 4, L0662:			83-107, 53-69

				4, L0794: 4, H0658: 4, L0758: 4, H0135: 3, L0803: 3, L0774: 3, L0665: 3, H0521: 3, L0747: 3, H0295: 2, H0657: 2, S0420: 2, S0356: 2, H0549: 2, H0550: 2, H0253: 2, H0163: 2, H0551: 2, S0142: 2, L0770: 2, L0769: 2, L0766: 2, L0804: 2, L0806: 2, L0659: 2, L0663: 2, H0547: 2, H0672: 2, S0027: 2, L0759: 2, H0707: 2, S0192: 2, H0543: 2, H0686: 1, S0040: 1, H0294: 1, H0583: 1, S0212: 1, H0254: 1, H0662: 1, H0306: 1, H0402: 1, S0418: 1, S0360: 1, H0208: 1, S0045: 1, H0393: 1, H0261: 1, S0222: 1, H0587: 1, H0333: 1, H0486: 1, H0069: 1, S0049: 1, H0309: 1, H0544: 1, H0123: 1, H0081: 1, H0620: 1, H0024: 1, T0010: 1, H0286: 1, H0328: 1, H0553: 1, H0628: 1, H0617: 1, H0616: 1, H0413: 1, H0100: 1, H0646: 1, S0344: 1, L0763: 1, L0637: 1, L0761: 1, L0646:								
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1209	HWHGQ4 6	895880	1219	514 - 1251	2624	Thr-60 to Ala-65, Leu-94 to Glu-99, Cys-182 to Trp-188.	1, L0644: 1, L0375: 1, L0378: 1, L0776: 1, L0493: 1, L0656: 1, L0788: 1, L0666: 1, H0593: 1, H0660: 1, S0332: 1, S0406: 1, H0555: 1, L0610: 1, S3014: 1, L0744: 1, L0751: 1, L0756: 1, L0779: 1, L0752: 1, L0757: 1, S0434: 1, L0588: 1, L0603: 1 and S0456: 1. AR053: 3, AR052: 3, AR061: 2, AR089: 2, AR055: 2, AR033: 2, AR096: 1, AR060: 1, AR104: 1 L0748: 14, L0740: 9, L0755: 9, L0771: 7, L0779: 6, L0662: 5, H0586: 4, L0666: 4, L0439: 4, S0436: 4, H0624: 3, H0615: 3, L0770: 3, L0659: 3, L0809: 3, H0547: 3, S0152: 3, H0521: 3, L0747: 3, H0171: 2, S0045: 2, H0635: 2, H0575: 2, H0546: 2, H0169: 2, H0494: 2, L0763: 2, L0769: 2, L0650: 2, L0653: 2, L0517: 2, H0520: 2, H0593: 2, H0435: 2, L0749:					27-61, 1- 27, 159- 181, 117- 142, 68- 87, 189- 205
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1210	HNTOA59	895940	1220	289 - 1455	2625	Ser-55 to Gln-67, Ser-95 to Arg-100.	2, L0752: 2, L0731: 2, L0759: 2, L0605: 2, H0170: 1, H0685: 1, L0459: 1, H0295: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0408: 1, H0580: 1, H0729: 1, S0046: 1, S0300: 1, H0587: 1, H0042: 1, H0251: 1, H0545: 1, H0569: 1, H0024: 1, H0083: 1, H0288: 1, H0328: 1, H0428: 1, H0424: 1, H0644: 1, H0165: 1, H0135: 1, H0087: 1, H0100: 1, L0351: 1, H0625: 1, S0002: 1, L0646: 1, L0764: 1, L0768: 1, L0775: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0606: 1, L0657: 1, L0519: 1, L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0670: 1, H0539: 1, H0522: 1, H0696: 1, S0406: 1, H0436: 1, H0626: 1, S0027: 1, L0743: 1, L0751: 1, L0757: 1, L0592: 1, L0593: 1, H0542: 1, H0543: 1, H0423: 1 and S0412: 1.	AR033: 3, AR096: 2, AR052: 2, AR089: 2.				209-237
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1211	HVV	AL93	895960	1221	662 - 1435	2626	Glu-142 to Ser-147, Pro-189 to Lys-200, Lys-235 to Lys-240, Glu-281 to Thr-294, Ile-299 to Ser-306, Ser-309 to Asn-317, Pro-324 to Phe-338, Ser-340 to Gly-352, Cys-355 to Leu-360, Val-374 to Ala-381.	AR053: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 1, AR039: 0, L0439: 19, L0747: 6, L0804: 4, L0438: 4, L0766: 3, H0521: 3, S0212: 2, L0794: 2, L0793: 2, H0144: 2, L0752: 2, L0594: 2, H0265: 1, H0662: 1, S0354: 1, S0360: 1, H0441: 1, H0438: 1, T0039: 1, H0013: 1, H0156: 1, S0010: 1, L0471: 1, H0083: 1, H0266: 1, H0032: 1, H0038: 1, L0351: 1, H0494: 1, H0646: 1, L0598: 1, H0529: 1, L0763: 1, L0769: 1, L0803: 1, L0775: 1, S0374: 1, L0352: 1, H0520: 1, H0519: 1, S0350: 1, L0756: 1, L0779: 1, L0592: 1, H0665: 1 and S0424: 1.				108-138
								AR055: 43, AR089: 17, AR033: 17, AR060: 16, AR052: 14, AR053: 12, AR039: 11, AR096: 10, AR061: 8, AR104: 7, L0754: 2, S0040: 1 and H0672: 1.				

1212	HAMGN09	895968	1222	226 - 1077	2627	Phe-84 to Trp-90, Lys-182 to Ile-187, Ser-202 to Leu-214, Pro-232 to Ser-240, Phe-260 to Met-273.	AR052: 9, AR053: 8, AR096: 7, AR089: 5, AR104: 4, AR033: 4, AR060: 4, AR039: 4, AR055: 2, AR061: 2 H0032: 7, L0749: 6, L0755: 5, L0804: 4, L0775: 4, L0748: 4, L0803: 3, L0731: 3, S0408: 2, S0222: 2, H0266: 2, L0805: 2, S0152: 2, S3014: 2, L0747: 2, H0556: 1, H0657: 1, H0341: 1, H0638: 1, H0125: 1, S0418: 1, H0722: 1, H0728: 1, H0574: 1, H0486: 1, H0318: 1, H0421: 1, H0530: 1, H0083: 1, H0375: 1, S6028: 1, H0267: 1, H0615: 1, H0165: 1, H0598: 1, H0591: 1, H0038: 1, H0634: 1, H0413: 1, H0560: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L0773: 1, L0375: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0809: 1, L5623: 1, L0664: 1, H0144: 1, H0518: 1, H0522: 1, L0756: 1, L0758: 1, L0759: 1, L0588: 1, H0667: 1 and H0543: 1.				150-167
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1213	HHEDS40	896083	1223	161 - 1567	2628	Glu-19 to Lys-30, Ser-130 to Lys-136, Asp-156 to Cys-164, Asn-166 to Lys-172, Glu-233 to Ser-243, Leu-311 to Glu-322, Asp-331 to Thr-352, Thr-363 to Ala-376, Pro-385 to Pro-390.	AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR039: 1, AR104: 1, AR055: 1, AR061: 1, AR052: 1 L0766: 8, L0769: 4, L0794: 4, L0803: 4, L0748: 3, L0749: 3, H0266: 2, L0764: 2, H0144: 2, L0777: 2, L0731: 2, H0445: 2, L0596: 2, H0543: 2, H0556: 1, S0116: 1, H0638: 1, H0580: 1, S0045: 1, T0039: 1, S6028: 1, H0267: 1, H0622: 1, L0483: 1, S0036: 1, H0135: 1, H0561: 1, L0761: 1, L0806: 1, L0805: 1, L0657: 1, L0666: 1, S0053: 1, S0330: 1, H0539: 1, S3014: 1, L0779: 1, L0757: 1, L0593: 1, H0542: 1 and S0424: 1.			431-449, 94-110
1214	HBMBF28	896325	1224	185 - 1021	2629	Leu-6 to Glu-11, Thr-13 to Pro-20, Glu-86 to Ala-92, Gln-95 to Leu-104, Glu-110 to Lys-116, Gln-173 to Phe-178, Gln-242 to Glu-261, Arg-267 to Tyr-279.	AR055: 406, AR060: 202, AR033: 149, AR039: 134, AR089: 128, AR061: 101, AR096: 99, AR104: 79, AR053: 73, AR052: 0 H0521: 9, L0508: 4, S0410: 3, S0474: 3, H0413: 3, L0766: 3, L0608: 3,			66-85, 26- 42, 212- 228

1215	HJPAZ12	896370	1225	242 - 1048	2630	Leu-35 to Arg-41, Pro-46 to Leu-58, Phe-62 to Asp-73, Lys-101 to Phe-117, Tyr-134 to Trp-140.	H0543: 3, H0637: 2, H0580: 2, H0492: 2, H0635: 2, L0483: 2, L0498: 2, L0509: 2, L0602: 2, S0206: 2, L0747: 2, L0588: 2, L0589: 2, H0224: 1, H0346: 1, S0360: 1, S0408: 1, H0728: 1, S0046: 1, S0476: 1, H0411: 1, H0497: 1, H0632: 1, H0486: 1, H0253: 1, H0581: 1, H0421: 1, T0115: 1, H0271: 1, T0041: 1, H0641: 1, H0529: 1, L0451: 1, L0369: 1, L0794: 1, L0657: 1, L0493: 1, L0515: 1, L0793: 1, L0663: 1, H0518: 1, H0436: 1, S3012: 1, L0779: 1, L0758: 1, H0444: 1, S0308: 1, S0436: 1, L0590: 1, L0599: 1 and H0542: 1.					186-208, 81-97, 11- 27, 168- 184
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				5, H0599: 4, H0068: 4, S0150: 4, S0422: 4, L0761: 4, L0659: 4, L0665: 4, S0436: 4, L0362: 4, S0007: 3, H0013: 3, S0003: 3, S0214: 3, H0040: 3, S0440: 3, L0794: 3, L0805: 3, H0522: 3, S0404: 3, L0748: 3, L0752: 3, H0543: 3, H0556: 2, S0444: 2, H0733: 2, H0455: 2, H0586: 2, H0244: 2, S0010: 2, S0051: 2, H0615: 2, H0598: 2, S0036: 2, H0494: 2, L0065: 2, H0641: 2, L0763: 2, L0770: 2, L0769: 2, L0800: 2, L0804: 2, L0774: 2, L0775: 2, L0776: 2, L0655: 2, L0666: 2, L0663: 2, S0126: 2, H0435: 2, H0659: 2, H0648: 2, S0328: 2, H0521: 2, S0028: 2, L0740: 2, L0749: 2, L0779: 2, L0777: 2, L0757: 2, L0758: 2, S0031: 2, L0591: 2, S0026: 2, H0624: 1, H0265: 1, T0002: 1, H0657: 1, L0785: 1, H0341: 1, S0282: 1, H0484: 1, S0420: 1, S0356: 1, S0442: 1, S0358:								
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[illegible]

1216	HISCV39	896442	1226	2720 - 723	2631		1, S014: 1, L0746: 1, L0786: 1, L0731: 1, L0759: 1, H0445: 1, S0434: 1, L0592: 1, H0542: 1 and L0600: 1. AR096: 5, AR089: 3, AR033: 3, AR053: 2, AR060: 2, AR039: 2, AR104: 2, AR055: 2, AR052: 2, AR061: 1 L0748: 8, H0556: 6, L0439: 6, L0766: 5, L0438: 5, L0759: 5, L0662: 4, S0046: 3, S0010: 3, H0024: 3, H0135: 3, L0663: 3, H0547: 3, S0126: 3, H0651: 3, L0751: 3, L0731: 3, S0011: 3, H0543: 3, H0650: 2, S0418: 2, S0442: 2, S0358: 2, H0261: 2, H0549: 2, H0586: 2, H0642: 2, H0052: 2, H0327: 2, H0620: 2, T0010: 2, H0687: 2, H0644: 2, L0456: 2, H0063: 2, L0598: 2, L0772: 2, L0657: 2, L0809: 2, S0052: 2, H0660: 2, H0539: 2, H0436: 2, L0754: 2, L0746: 2, L0777: 2, L0752: 2, L0753: 2, L0603: 2, H0624:	16			611-637, 25-44, 126-142
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1217	HPTVU91	896517	1227	864 - 145	2632	Asp-144 to Asp-151, Pro-153 to Arg-158, Pro-196 to Gly-201, Pro-215 to Trp-239.	1, L0653: 1, L0776: 1, L0379: 1, L0659: 1, L0636: 1, L0783: 1, L0789: 1, L0666: 1, L0665: 1, S0374: 1, H0723: 1, H0520: 1, H0435: 1, H0659: 1, H0672: 1, S0330: 1, S0350: 1, H0521: 1, H0696: 1, H0704: 1, S0044: 1, H0555: 1, S0392: 1, H0478: 1, S3014: 1, L0741: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0779: 1, L0755: 1, L0592: 1, S0242: 1, S0196: 1, H0506: 1 and L0600: 1.					88-123, 17-40, 61- 82, 163- 179, 84- 100
							AR055: 11, AR060: 6, AR061: 6, AR089: 6, AR033: 5, AR053: 4, AR039: 4, AR052: 4, AR104: 3, AR096: 3 S0442: 3, S0360: 2, H0424: 2, H0661: 1, S0376: 1, S0444: 1, H0489: 1, L0021: 1, H0039: 1, H0617: 1, S0440: 1, S0150: 1, H0647: 1, H0652: 1, L0772: 1, L0374: 1, L0662: 1, L0388: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, L0665: 1, H0658: 1, H0648:					

1218	HSLJD02	896743	1228	850 - 53	2633	Leu-32 to Gln-37, Phe-141 to Gly-146, Gln-261 to Ala-266.	1 and L0747: 1. AR039: 1, AR089: 1, AR096: 1, AR055: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR104: 0 S0390: 1				235-260, 9-32, 146- 168, 77- 96, 175- 193, 116- 133, 206- 222
1219	HNHOF94	896802	1229	769 - 284	2634	Pro-87 to Ser-95.	AR096: 16, AR052: 15, AR089: 13, AR033: 8, AR060: 8, AR053: 8, AR104: 8, AR055: 5, AR061: 5, AR039: 5 S0216: 1				110-126, 50-66
1220	H2CBM85	896826	1230	393 - 860	2635	Ala-85 to Val-92.	AR052: 64, AR096: 42, AR053: 40, AR089: 29, AR060: 23, AR039: 23, AR033: 17, AR104: 13, AR055: 12, AR061: 11 S0028: 19, S0031: 9, S0052: 8, S0050: 7, L0105: 5, S0282: 4, H0381: 3, S0045: 3, S0278: 3, H0271: 3, H0617: 3, S0428: 3, S0001: 2, S0049: 2, H0196: 2, H0179: 2, S0038: 2, S0144: 2, S0044: 2, S0390: 2, S0206: 2, S0260: 2, L0591: 2, L0362: 2, L0361:				64-81

1221	HSLJC45	896843	1231	158 - 760	2636	Thr-3 to Gly-43, Thr-55 to Gln-61, Pro-71 to Ala-77, Pro-112 to Val-121, Thr-183 to His-188, Trp-195 to Thr-201.	2, L0603: 2, S0035: 1, S0046: 1, H0333: 1, H0253: 1, H0318: 1, T0110: 1, H0046: 1, H0266: 1, H0416: 1, H0031: 1, H0180: 1, H0181: 1, H0383: 1, H0169: 1, S0036: 1, H0135: 1, H0163: 1, H0634: 1, H0164: 1, L0374: 1, L0379: 1, S0126: 1, H0658: 1, S0152: 1, S0037: 1 and S3014: 1.	3p24.2	154705, 227646, 601154	147-164	
1222	HETJW92	896874	1232	109 - 432	2637		AR096: 37, AR060: 15, AR055: 12, AR089: 11, AR039: 11, AR033: 9, AR052: 6, AR061: 5, AR053: 5, AR104: 5 L0438: 3, H0018: 1, H0522: 1, S0390: 1 and L0439: 1. AR055: 15, AR060: 13, AR089: 11, AR061: 9, AR033: 8, AR096: 7, AR052: 6, AR053: 5, AR104: 4, AR039: 3 H0046: 9, S0152: 3, L0439: 3, L0751: 3, H0052: 2, H0646: 2, L0438: 2, L0608: 2, S0376: 1, S0360: 1, H0393: 1, H0575: 1,			1-25, 38- 57, 85-101	

1223	HTEME02	896919	1233	97 - 828	2638	Arg-33 to Gly-39, Arg-76 to Gly-99, Lys-112 to Val-118, Tyr-135 to Lys-148, Arg-152 to Arg-157.	S0346: 1, T0006: 1, H0598: 1, H0040: 1, L0800: 1, L0382: 1, L0788: 1, S0374: 1, H0689: 1, H0690: 1, H0539: 1, S0037: 1 and L0759: 1. AR060: 353, AR104: 303, AR055: 289, AR039: 258, AR033: 219, AR061: 208, AR089: 160, AR052: 140, AR053: 111, AR096: 75 L0748: 13, H0052: 7, S0222: 6, H0616: 6, H0013: 5, H0144: 5, L0005: 4, S0010: 4, H0421: 4, H0090: 4, H0038: 4, H0040: 4, L0758: 4, H0486: 3, H0622: 3, L0747: 3, S0040: 2, H0662: 2, H0619: 2, H0156: 2, H0318: 2, H0328: 2, H0031: 2, H0163: 2, L0648: 2, L0649: 2, L0805: 2, L0666: 2, L0665: 2, H0690: 2, S0406: 2, L0777: 2, S0260: 2, S6024: 1, S0114: 1, S0212: 1, S0110: 1, S0001: 1, S0282: 1, S0442: 1, S0376: 1, S0360: 1, S0300: 1, H0549: 1, H0431: 1, H0438: 1, H0331: 1,					40-61, 2- 18
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1224	HCYAC03	896987	1234	1604 - 1005	2639	Cys-15 to Gly-36, Tyr-55 to Ser-66, Pro-74 to Ala-84, Gly-100 to Asp-108, Leu-177 to His-198.	H0575: 1, H0036: 1, H0581: 1, L0024: 1, H0263: 1, H0050: 1, L0471: 1, H0399: 1, H0188: 1, H0687: 1, S0003: 1, H0688: 1, H0428: 1, H0039: 1, H0092: 1, H0033: 1, H0628: 1, L0455: 1, S0036: 1, H0135: 1, H0591: 1, H0551: 1, H0264: 1, H0488: 1, H0059: 1, T0069: 1, T0041: 1, S0015: 1, S0016: 1, S0440: 1, H0641: 1, S0344: 1, S0002: 1, H0529: 1, L0763: 1, L0373: 1, L0662: 1, L0766: 1, L0659: 1, L0519: 1, L0530: 1, L0438: 1, H0519: 1, H0593: 1, H0689: 1, H0684: 1, H0672: 1, H0539: 1, S0392: 1, L0439: 1, L0750: 1, S0434: 1, L0596: 1, L0592: 1, L0362: 1, L0366: 1, S0194: 1, S0276: 1, H0543: 1, H0422: 1, H0506: 1 and H0352: 1.	AR033: 50, AR104: 31, AR089: 27, AR060: 21, AR096: 19, AR055: 18, AR053: 13, AR052: 13, AR061: 12, AR039: 9			114-140, 147-163, 1-17
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1225	HTTBH18	897055	1235	981 - 1325	2640	Thr-3 to Phe-14.	1, L0635: 1, L0517: 1, L0647: 1, L0788: 1, L0666: 1, L0665: 1, H0144: 1, S0374: 1, H0659: 1, H0672: 1, S0378: 1, H0696: 1, H0704: 1, H0436: 1, S0392: 1, H0478: 1, L0742: 1, L0743: 1, L0749: 1, L0731: 1, S0434: 1, L0601: 1, L0366: 1, S0026: 1, S0192: 1, H0542: 1, H0543: 1 and H0422: 1.				
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1226	HOGBM94	897226	1236	1660 - 296	2641	Gly-46 to Lys-52, Asp-242 to Ser-247, Arg-272 to Ala-281, Arg-371 to Pro-377, Ala-430 to Asp-435, Gln-441 to Thr-446.	AR055: 5, AR039: 5, AR096: 4, AR033: 4, AR104: 4, AR052: 4, AR060: 4, AR053: 4, AR089: 4, AR061: 3 L0748: 8, L0439: 5, S0278: 4, L0770: 3, L0803: 3, L0665: 3, L0731: 3, S0040: 2, S0418: 2, H0250: 2, H0581: 2, H0622: 2, H0264: 2, H0056: 2, S0426:				144-168, 247-270, 385-412, 319-339, 208-225, 300-317, 282-299, 25-41, 114-130, 55-71, 91- 107

1227	HSLAS08	897262	1237	91 - 975	2642	Leu-79 to Thr-89, Pro-92 to Leu-99.	2, L0769: 2, L0662: 2, L0794: 2, L0659: 2, L0666: 2, L0663: 2, H0521: 2, H0522: 2, L0751: 2, L0747: 2, L0749: 2, L0758: 2, L0759: 2, L0593: 2, H0543: 2, H0265: 1, H0556: 1, H0657: 1, H0341: 1, S0110: 1, S0282: 1, H0484: 1, H0483: 1, H0255: 1, H0663: 1, S0007: 1, L0717: 1, H0261: 1, H0370: 1, H0586: 1, H0587: 1, H0559: 1, L0021: 1, H0575: 1, H0253: 1, H0545: 1, H0123: 1, H0012: 1, H0024: 1, H0083: 1, H0688: 1, H0617: 1, H0135: 1, H0488: 1, H0412: 1, H0413: 1, H0494: 1, S0150: 1, H0641: 1, H0652: 1, H0538: 1, L0667: 1, L0764: 1, L0766: 1, L0653: 1, H0519: 1, S0126: 1, H0435: 1, H0518: 1, S0190: 1, H0555: 1, S3012: 1, S0037: 1, L0744: 1, L0756: 1, L0779: 1, L0757: 1, L0592: 1 and H0668: 1.	19p13.2	108725, 120700,	1-22, 261- 285
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Val-124 to Asp-138, Lys-145 to Thr-153, Gln-159 to Leu-164, Pro-184 to Thr-194, Asn-223 to Asn-230, Arg-258 to Lys-264, Arg-290 to Lys-295.	AR053: 2, AR104: 2, AR033: 1, AR055: 1, AR061: 1, AR052: 0 L0439: 13, S0028: 6, H0575: 5, H0050: 5, S0027: 5, H0266: 4, L0794: 4, L0659: 4, H0124: 3, S3014: 3, L0779: 3, L0777: 3, L0731: 3, S0222: 2, L0564: 2, L0662: 2, L0789: 2, S0126: 2, L0602: 2, L0740: 2, L0754: 2, L0747: 2, L0758: 2, L0605: 2, L0599: 2, S0192: 2, S0212: 1, S0282: 1, S0420: 1, S0360: 1, H0208: 1, H0486: 1, T0040: 1, T0060: 1, H0599: 1, S6028: 1, H0288: 1, H0286: 1, S0250: 1, H0622: 1, L0455: 1, H0634: 1, H0412: 1, H0623: 1, S0038: 1, L0645: 1, L0363: 1, L0766: 1, L0635: 1, L0790: 1, L0663: 1, L0664: 1, S0053: 1, H0144: 1, L0565: 1, H0682: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1, S0390: 1, L0757: 1, S0031: 1, H0445: 1, L0591: 1, S0276: 1 and H0542: 1.	133171, 143890, 147670, 147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843
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1228	HTLJA52	897328	1238	4 - 585	2643		AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 3, AR096: 3, AR053: 3, AR052: 3, AR104: 2, AR039: 0 L0758: 8, L0794: 5, L0779: 5, H0616: 3, H0618: 2, L0777: 2, H0038: 1 and L0768: 1.				43-59, 141-157
1229	HISCG60	897517	1239	1683 - 1102	2644		AR039: 28, AR089: 20, AR096: 17, AR104: 14, AR053: 12, AR033: 12, AR060: 11, AR052: 11, AR055: 6, AR061: 4 H0519: 9, H0547: 8, H0521: 7, S0126: 6, H0619: 5, H0457: 5, H0264: 5, H0529: 5, L0794: 5, H0520: 5, H0539: 5, H0543: 5, H0677: 5, S0007: 4, L0471: 4, H0083: 4, H0266: 4, L0455: 4, H0135: 4, H0090: 4, T0041: 4, T0042: 4, L0718: 4, H0341: 3, S0420: 3, S0046: 3, H0052: 3, H0050: 3, H0494: 3, H0561: 3, S0150: 3, H0641: 3, H0660: 3, S0027: 3, L0779: 3, H0624: 2, H0556: 2, S0040: 2, T0049: 2, S0134:				154-179, 122-147, 38-60, 79- 99, 11-27, 102-118

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1230	HEBFI34	897852	1240	1140 - 424	2645	Gly-88 to Arg-93, Ser-133 to Tyr-138, Phe-189 to Gly-195, Thr-211 to Gly-227.	1, L0654: 1, L0664: 1, H0698: 1, H0689: 1, H0435: 1, H0658: 1, H0672: 1, S0330: 1, S0152: 1, L0356: 1, H0631: 1, S0037: 1, L0439: 1, L0745: 1, L0747: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0595: 1, S0026: 1, H0136: 1, H0423: 1 and H0422: 1. AR089: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 2, AR055: 1, AR096: 1, AR052: 0, AR039: 0 L0748: 10, L0759: 6, S0436: 4, S0007: 3, S0126: 3, H0659: 3, S0028: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0755: 3, S0376: 2, H0250: 2, H0046: 2, H0673: 2, H0038: 2, H0412: 2, H0494: 2, H0529: 2, L0770: 2, L0768: 2, L0766: 2, L0805: 2, S0152: 2, L0745: 2, L0750: 2, L0779: 2, L0757: 2, T0002: 1, H0583: 1, S0116: 1, H0341: 1, S0358: 1, S0444: 1, S0360: 1, H0580: 1,					93-132, 167-185, 93-112, 60-77, 148-164, 22-38
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1231	HKA EK20	897885	1241	958 - 353	2646	Pro-4 to Pro-9, Val-81 to Phe-87.	S0045: 1, S0476: 1, H0261: 1, H0642: 1, H0574: 1, H0485: 1, H0486: 1, T0040: 1, H0599: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0150: 1, H0083: 1, H0266: 1, H0687: 1, S0214: 1, H0553: 1, H0372: 1, H0616: 1, H0100: 1, S0112: 1, S0438: 1, S0150: 1, H0641: 1, S0142: 1, L0764: 1, L0767: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0791: 1, L0666: 1, L0665: 1, S0428: 1, L0438: 1, H0689: 1, H0435: 1, H0660: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, H0522: 1, S0406: 1, S0027: 1, L0753: 1, L0731: 1, L0758: 1, S0434: 1, S0276: 1, S0196: 1 and H0423: 1. AR089: 6, AR055: 6, AR033: 5, AR053: 4, AR052: 4, AR096: 3, AR061: 3, AR039: 1, AR060: 1, AR104: 0 S0422: 19, S0126: 11, L0769: 10, L0750: 10, H0046: 9, H0124: 9, S0206:				95-120, 43-59
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1232	HDPVZ07	897891	1242	1207 - 287	2647	Ser-14 to Lys-21, Tyr-31 to Ser-39, Arg-121 to Gly-129, His-142 to Pro-153, Glu-155 to Ala-160, Arg-165 to Ala-170, Met-173 to Cys-180, Gln-187 to Ile-196, Ser-254 to Glu-264, Val-297 to Gly-302.	1, L0773: 1, L0522: 1, L0803: 1, L0650: 1, L0774: 1, L0375: 1, L0376: 1, L0523: 1, L0654: 1, L0655: 1, L0606: 1, L0657: 1, L0384: 1, L0788: 1, L0792: 1, L0532: 1, L0664: 1, S0374: 1, H0659: 1, H0660: 1, H0648: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, H0696: 1, H0478: 1, H0732: 1, S0037: 1, L0756: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, L0480: 1, H0136: 1, S0192: 1, S0242: 1, S0194: 1, S0196: 1 and H0543: 1.	5q23-q31	121050, 126150, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692,	98-114
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1233	HE8PB56	897898	1243	1893 - 1315	2648	Gln-37 to Gln-43, Cys-51 to Cys-65.	AR096: 3, AR061: 2, AR053: 1, AR089: 1, AR055: 1, AR033: 1, AR060: 1, AR052: 0, AR039: 0, AR104: 0 S0440: 28, S0476: 19, H0494: 19, S0372: 16, L0754: 16, S0132: 12, H0046: 12, L0666: 12, H0586: 11, S0330: 11, S0328: 10, S0360: 9, H0587: 9, L0747: 9, H0622: 8, S0436: 8, H0648: 7, S0356: 6, S0003: 6, H0674: 6, L0806: 5, L0362: 5, L0601: 5, S0358: 4, S0214: 4, H0039: 4, H0031: 4, H0264: 4, L0763: 4, L0662: 4, L0776: 4, L0777: 4, L0752: 4, S0430: 3, S0376: 3, H0370: 3, H0600: 3, H0592: 3, H0644: 3, H0551: 3, H0560: 3, L0637: 3, L0646: 3, L0649: 3, L0653:	601692, 601692, 601692, 602089, 602121, 602460	71-111, 10-33, 100-132, 151-176
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1234	HCFBF02	897932	1244	2128 - 2463	2649	Thr-12 to Gly-21.	1, H0634: 1, T0067: 1, H0380: 1, H0272: 1, H0487: 1, H0412: 1, H0623: 1, H0059: 1, H0100: 1, S0352: 1, S0382: 1, S0448: 1, S0306: 1, S0438: 1, L0640: 1, L0770: 1, L0761: 1, L0764: 1, L0771: 1, L0648: 1, L0794: 1, L0549: 1, L5564: 1, L0551: 1, L0805: 1, L0518: 1, L0382: 1, L0519: 1, L0789: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0711: 1, H0435: 1, H0659: 1, H0666: 1, S0350: 1, S0044: 1, H0555: 1, S0322: 1, L0748: 1, L0740: 1, L0745: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, S0242: 1 and S0456: 1.				94-111, 23-39
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1235	HE8TB14	897937	1245	2032 - 1475	2650	Lys-54 to Arg-61, Pro-108 to Ala-119, Ser-136 to Glu-156, Gly-166 to Ser-172.	S0438: 1, H0646: 1, S0208: 1, L0796: 1, L0667: 1, L0644: 1, L0764: 1, L0768: 1, L0654: 1, L0655: 1, L0606: 1, L0634: 1, L0659: 1, L0809: 1, L0367: 1, L0791: 1, L0793: 1, L0666: 1, L0438: 1, H0520: 1, H0519: 1, H0689: 1, H0684: 1, H0666: 1, H0672: 1, S0378: 1, H0631: 1, L0741: 1, L0756: 1, S0260: 1, L0599: 1, L0595: 1, S0242: 1 and H0542: 1.				70-89, 14- 30
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1236	HHEFI15	897968	1246	141 - 1040	2651	Pro-19 to Gly-27, Cys-52 to Gly-64, Lys-77 to Lys-85, Pro-104 to Leu-117, Glu-119 to Tyr-127, Glu-153 to Gly-162,	H0717: 1, S0402: 1, H0294: 1, S0114: 1, S0116: 1, H0341: 1, S0212: 1, H0483: 1, H0664: 1, H0662: 1, S0360: 1, S0046: 1, H0619: 1, H0411: 1, H0369: 1, S0222: 1, H0438: 1, H0486: 1, H0156: 1, H0318: 1, H0581: 1, H0046: 1, H0457: 1, H0564: 1, H0051: 1, H0201: 1, H0416: 1, H0688: 1, H0644: 1, L0456: 1, H0135: 1, H0616: 1, H0059: 1, H0561: 1, S0344: 1, L0763: 1, L0646: 1, L0521: 1, L0766: 1, L0649: 1, L0789: 1, L0663: 1, L0438: 1, H0435: 1, H0539: 1, S0406: 1, H0436: 1, L0612: 1, L0748: 1, L0751: 1, L0779: 1, L0731: 1, L0758: 1, L0759: 1, L0686: 1, S0436: 1, L0595: 1 and S0194: 1.					84-101
						AR039: 5, AR053: 5, AR052: 5, AR033: 5, AR089: 4, AR055: 4, AR096: 3, AR060: 3, AR104: 2, AR061: 2 L0438: 9, L0439: 8,						

1237	HHEQF50	897970	1247	533 - 66	2652	Ser-205 to Gly-216, Ser-223 to Gly-230.	L0748: 6, H0556: 3, S0007: 3, L0777: 3, H0265: 2, S0360: 2, H0592: 2, S0010: 2, H0041: 2, H0081: 2, L0794: 2, L0803: 2, L0666: 2, S0328: 2, L0596: 2, L0608: 2, H0224: 1, H0225: 1, S0040: 1, S0114: 1, T0049: 1, H0255: 1, H0411: 1, H0549: 1, S0222: 1, H0586: 1, H0618: 1, H0581: 1, H0052: 1, H0309: 1, L0471: 1, H0620: 1, H0373: 1, H0286: 1, T0006: 1, H0674: 1, H0135: 1, H0646: 1, L0770: 1, L0800: 1, L0764: 1, L0662: 1, L0363: 1, L0766: 1, L0804: 1, L0789: 1, L0663: 1, L0665: 1, H0547: 1, H0684: 1, S0028: 1, L0749: 1, L0756: 1, L0779: 1, H0542: 1 and S0424: 1.				
						Leu-52 to Ser-57, His-70 to Lys-77, Pro-100 to Lys-106, Lys-143 to Ala-148.	AR052: 2, AR053: 1, AR096: 1, AR055: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR033: 0 H0542: 39, H0592: 8, H0543: 8, H0545: 7, S0422: 1				125-141, 22-38

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1238	HOSAY56	897979	1248	1058 - 348	2653	Lys-13 to Ser-18, Ala-28 to Pro-35.		AR096: 5, AR052: 5, AR061: 4, AR089: 4, AR055: 3, AR060: 3, AR053: 3, AR033: 3, AR104: 3, AR039: 3 H0521: 9, H0522: 4, H0580: 2, S0214: 2, L0750: 2, H0486: 1, L0021: 1, H0251: 1, H0309: 1, H0263: 1, H0271: 1, S0003: 1, H0068: 1, H0090: 1, S0144: 1, L0803: 1, L0804: 1, L0749: 1, L0777: 1 and L0759: 1.			39-72	
1239	HOGEA82	898097	1249	1428 - 340	2654			AR039: 8, AR033: 8, AR089: 6, AR053: 6, AR055: 6, AR060: 5, AR052: 5, AR096: 4, AR061: 3, AR104: 2 T0008: 1, H0052: 1, H0435: 1, H0672: 1 and H0696: 1.			59-75, 163-179	
1240	HHFJV91	898152	1250	1250 -	2655	Val-6 to Phe-30,		AR089: 11, AR096: 8,			120-142	

				1693	Leu-33 to Pro-42, Leu-75 to Glu-80, His-99 to Ala-104.	AR060: 8, AR053: 8, AR052: 7, AR055: 7, AR033: 6, AR039: 4, AR104: 4, AR061: 4 H0222: 1, H0341: 1, H0662: 1, H0619: 1, H0370: 1, S0003: 1, H0673: 1, H0591: 1, H0529: 1, L0771: 1, H0543: 1 and H0423: 1.			
1241	HMACM2 9	898193	1251	981 - 292	Pro-37 to Cys-51, Gln-53 to Cys-60, Asn-99 to Gly-106, Gly-145 to Glu-151, Gly-200 to Tyr-219.	AR033: 216, AR061: 216, AR104: 181, AR060: 158, AR096: 139, AR055: 122, AR089: 122, AR039: 78, AR052: 57, AR053: 50 S0278: 12, S0144: 12, S0142: 9, H0521: 8, H0638: 5, S0344: 5, L0731: 5, L0755: 3, L0756: 2, H0575: 1, H0009: 1, H0375: 1, H0606: 1, S0438: 1, S0440: 1, S0002: 1, L0763: 1, L0769: 1, L0637: 1, L0806: 1, L0658: 1, L0666: 1, L0355: 1, S0332: 1, H0522: 1, S0028: 1, S0031: 1, S0436: 1 and L0599: 1.			166-197, 2-18
1242	HDPLG70	898235	1252	918 - 199	Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138,	AR039: 106, AR053: 103, AR096: 100, AR052: 69, AR055: 34, AR089: 22,			196-228, 11-42

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1243	HABAD39	898401	1253	36 - 848	2658			1, H0263: 1, L0738: 1, H0530: 1, H0046: 1, H0571: 1, H0081: 1, H0578: 1, H0083: 1, H0266: 1, H0615: 1, H0039: 1, H0604: 1, H0031: 1, H0181: 1, H0068: 1, S0036: 1, H0616: 1, H0087: 1, T0004: 1, H0494: 1, S0438: 1, H0529: 1, L0763: 1, L0796: 1, L0761: 1, L0645: 1, L0773: 1, L0364: 1, L0561: 1, L0651: 1, L0653: 1, L0654: 1, L0655: 1, L0629: 1, L0657: 1, L0658: 1, H0725: 1, H0519: 1, H0682: 1, H0684: 1, H0670: 1, S0380: 1, H0518: 1, S0044: 1, S0406: 1, H0555: 1, H0436: 1, S3014: 1, L0749: 1, L0731: 1, L0759: 1, S0260: 1, H0445: 1, H0423: 1 and H0506: 1.				31-58, 65- 81
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1244	HKAKC86	898524	1254	211 - 798	2659	Pro-11 to Leu-36.	1, L0439: 1, L0750: 1, L0780: 1, L0757: 1, H0445: 1, L0597: 1, L0588: 1, L0608: 1, S0192: 1, H0542: 1 and H0422: 1.				37-69, 82- 98, 156- 173, 118- 134
1245	HUKEP18	898588	1255	111 - 509	2660	Pro-3 to Glu-10, Asn-17 to Thr-29, Ala-80 to Glu-86, Ser-96 to Ile-101.	AR039: 7, AR052: 5, AR033: 4, AR089: 4, AR096: 4, AR053: 3, AR104: 3, AR060: 3, AR061: 2, AR055: 2 H0494: 4, H0486: 3, L0809: 2, L0747: 2, H0264: 1, L0550: 1 and L0758: 1.				116-133, 61-77
1246	HL2AE66	898739	1256	192 - 1112	2661	Ala-19 to Gln-29.	AR039: 36, AR053: 22, AR033: 18, AR052: 17, AR096: 17, AR104: 16, AR055: 16, AR089: 15, AR061: 11, AR060: 11 H0553: 3, H0556: 2, H0580: 2, L0032: 2, L0743: 2, H0265: 1, S0114: 1,	12p			278-294, 2-18, 199- 215

1247	HHGDQ67	898746	1257	15 - 380	2662				H0638: 1, S0356: 1, S0408: 1, H0151: 1, H0575: 1, H0581: 1, H0046: 1, H0050: 1, H0179: 1, H0039: 1, H0135: 1, H0087: 1, H0494: 1, H0561: 1, H0509: 1, H0131: 1, S0144: 1, S0422: 1, S0310: 1, H0593: 1, H0682: 1, H0435: 1, H0658: 1, H0539: 1, H0521: 1, H0522: 1, L0744: 1, L0754: 1, L0596: 1 and H0423: 1.				63-80, 106-122
1248	HHFJS83	898792	1258	329 - 931	2663	Glu-5 to Ile-15, Glu-146 to Asn-151, Ser-177 to Gly-184, Glu-186 to Pro-197.			AR104: 442, AR055: 331, AR060: 319, AR033: 211, AR061: 193, AR039: 173, AR089: 148, AR096: 95, AR053: 87, AR052: 0 H0333: 1, H0318: 1 and L0748: 1.				19-42, 62-86, 116-134, 91-110

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1249	HSUMA53	898943	1259	94 - 912	2664	Lys-96 to Ser-105, Lys-157 to Ala-162, Leu-170 to Glu-175, Ser-222 to Asn-228, Glu-251 to Arg-262.	H0627: 1, L0743: 1, L0748: 1, L0740: 1, L0758: 1, S0436: 1, L0592: 1, S0011: 1, H0653: 1, S0242: 1 and H0721: 1.				16-41, 119-145, 47-64, 77- 94, 104- 120
1250	HHFNI70	899099	1260	135 - 1100	2665		AR096: 13, AR055: 11, AR060: 6, AR052: 5, AR033: 5, AR061: 5, AR053: 5, AR039: 3, AR089: 3, AR104: 3 L0748: 19, L0749: 10, L0754: 9, L0747: 6, H0031: 5, L0731: 5, H0553: 4, S0438: 3, H0624: 2, H0171: 2, H0619: 2, H0393: 2.				229-259, 3-20, 28- 44

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1251	HLHCH09	899172	1261	208 - 1104	2666	Ile-40 to Val-46, Phe-64 to Thr-69, Ser-98 to Thr-106, Glu-114 to Gly-120, Ser-154 to Phe-167, Thr-175 to Ser-186, Ala-214 to Gly-219, Ser-262 to Ser-275, Pro-283 to Thr-294.	AR052: 8, AR055: 7, AR053: 7, AR061: 7, AR033: 6, AR060: 6, AR089: 6, AR096: 4, AR104: 3, AR039: 3 H0024: 1			230-263, 4-32		
1252	HNTAP78	899347	1262	1673 - 3	2667	Asp-5 to Glu-11,	AR039: 16, AR053: 16,			512-529,		

						Asp-54 to Gly-59, Val-66 to Trp-75, Asp-141 to Glu-149, Ala-166 to Glu-178, Trp-202 to Pro-211, Ile-311 to Phe-319, Gly-331 to Leu-338.	AR052: 13, AR033: 12, AR089: 9, AR055: 8, AR096: 8, AR060: 6, AR104: 5, AR061: 3, H0251: 3, H0547: 3, H0521: 3, H0266: 2, H0040: 2, S0116: 1, H0580: 1, H0486: 1, H0575: 1, H0318: 1, H0084: 1, H0212: 1, H0059: 1, H0142: 1, S0002: 1, L0662: 1, L0766: 1, L0665: 1, H0519: 1, H0672: 1, S0027: 1, L0743: 1, L0754: 1, L0780: 1, L0591: 1, S0026: 1 and H0665: 1.				213-229
1253	HOGEN56	899358	1263	659 - 3	2668	Gly-52 to Ser-57, Phe-81 to Arg-89, Lys-125 to Ser-133, His-162 to Gln-167.	AR053: 3, AR055: 2, AR089: 2, AR061: 2, AR033: 1, AR052: 1, AR060: 1, AR104: 1, AR096: 1, AR039: 0				167-200, 134-162, 59-78, 31- 51, 95- 112, 7-23
1254	HWLOU33	899644	1264	527 - 1081	2669	Pro-6 to Gly-25, His-31 to His-38, Ile-94 to Glu-99, Lys-107 to Thr-115, Lys-175 to Ser-181.	AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1, AR055: 1, AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803:				137-166

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1255	HPMKP09	899668	1265	2 - 697	2670	Asp-51 to His-59, Leu-79 to Asp-87, Phe-105 to Met-110, Phe-112 to Asp-123, Gly-136 to Asn-142, Lys-160 to Asp-166, Tyr-193 to Arg-200, Pro-209 to Asp-216.			AR055: 20, AR061: 12, AR060: 12, AR033: 11, AR104: 11, AR052: 9, AR053: 6, AR089: 6, AR039: 4, AR096: 3, H0156: 55, S0045: 25, L0662: 13, L0754: 12, H0051: 10, H0547: 10, L0439: 10, S0046: 8, L0105: 7, H0623: 7, H0412: 6, H0056: 6, L0755: 6, L0758: 6, H0624: 5, L0740: 5, L0471: 4, L0803: 4, S0328: 4, L0752: 4, L0588: 4, H0171: 3, S0360: 3, L0717: 3, H0545: 3, H0038: 3, H0268: 3, H0413: 3, L0794: 3, L0775: 3, L0647: 3, L0666: 3, L0664: 3, S0146: 3, S0406: 3, L0777: 3, S0260: 3, S0282: 2, H0619: 2, H0575: 2, T0082:				165-193, 1-24	

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1256	HDPKJ19	899677	1266	147 - 563	2671			1, L0589: 1, L0593: 1, L0603: 1, H0667: 1, H0543: 1 and H0506: 1. AR039: 5, AR052: 5, AR089: 3, AR060: 3, AR053: 3, AR096: 2, AR104: 2, AR061: 2, AR055: 1, AR033: 1 S0408: 7, S0442: 4, S0360: 4, L0646: 4, H0675: 3, L0764: 3, L0803: 3, S0444: 2, H0574: 2, S0440: 2, L0761: 2, L0662: 2, L0805: 2, L0791: 2, S0374: 2, H0521: 2, L0752: 2, S0436: 2, L0596: 2, H0686: 1, S0354: 1, S0358: 1, S0376: 1, H0147: 1, H0046: 1, H0014: 1, H0494: 1, L0065: 1, L0772: 1, L0642: 1, L0776: 1, L0809: 1, L0529: 1, L0790: 1, H0689: 1, H0648: 1, S0406: 1 and L0755: 1.				46-62, 6- 22
1257	HOEJZ65	900050	1267	164 - 535	2672	Lys-13 to Gly-23, Cys-38 to Asp-43, Gly-48 to Trp-53.		13q14.3	277900, 600631	51-75		

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H0659: 2, S0330: 2, S0380: 2, H0518: 2, H0521: 2, S0406: 2, L0740: 2, L0747: 2, L0750: 2, L0731: 2, L0605: 2, H0423: 2, H0171: 1, H0716: 1, S6024: 1, S0114: 1, L0002: 1, L0785: 1, S0298: 1, H0661: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, H0339: 1, L0717: 1, H0411: 1, H0369: 1, H0455: 1, H0586: 1, H0587: 1, S0414: 1, L0622: 1, H0486: 1, L0586: 1, H0427: 1, H0156: 1, H0042: 1, H0004: 1, H0505: 1, H0581: 1, H0309: 1, H0563: 1, S0050: 1, S0051: 1, H0239: 1, H0355: 1, H0510: 1, H0266: 1, H0179: 1, S0318: 1, S0336: 1, S0316: 1, H0615: 1, H0428: 1, H0039: 1, L0483: 1, H0032: 1, H0316: 1, H0598: 1, H0163: 1, H0412: 1, H0413: 1, H0022: 1, S0464: 1, S0450: 1, H0509: 1, H0646: 1, S0422: 1, L0769: 1, L0638: 1, L0667: 1, L0641: 1, L0764: 1, L0387: 1,
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1258	HHASY37	900177	1268	675 - 989	2673				L0766: 1, L0549: 1, L0803: 1, L0375: 1, L0376: 1, L0653: 1, L0776: 1, L0606: 1, L0607: 1, L0512: 1, L0517: 1, L0809: 1, S0053: 1, H0144: 1, L0565: 1, H0689: 1, H0682: 1, H0651: 1, S0378: 1, H0710: 1, S0392: 1, H0626: 1, L0748: 1, L0779: 1, L0755: 1, L0757: 1, H0445: 1, S0308: 1, H0343: 1, L0593: 1, L0362: 1, L0366: 1, S0026: 1, L0097: 1, S0194: 1, S0196: 1, H0422: 1, S0460: 1, H0506: 1 and H0352: 1.				54-72
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1259	HBXBC08	900230	1269	1728 -	2674	Arg-53 to Lys-61,	L0749: 2, H0265: 1, H0716: 1, S0134: 1, S0029: 1, S0418: 1, L0005: 1, S0354: 1, S0358: 1, S0360: 1, H0722: 1, S0132: 1, H0411: 1, H0486: 1, L0017: 1, T0082: 1, H0581: 1, H0085: 1, H0596: 1, H0546: 1, H0046: 1, H0457: 1, H0150: 1, H0009: 1, L0157: 1, H0563: 1, H0123: 1, H0620: 1, H0024: 1, H0373: 1, H0188: 1, H0687: 1, S0250: 1, H0039: 1, L0483: 1, H0553: 1, H0628: 1, H0169: 1, H0124: 1, H0068: 1, H0616: 1, H0087: 1, S0440: 1, S0144: 1, S0344: 1, L0764: 1, L0363: 1, L0766: 1, L0803: 1, L0378: 1, L0806: 1, L0776: 1, L0659: 1, L0809: 1, L0664: 1, L0665: 1, S0216: 1, H0547: 1, H0690: 1, H0521: 1, H0478: 1, L0741: 1, L0744: 1, L0754: 1, L0750: 1, L0779: 1, L0755: 1, L0758: 1, H0445: 1, L0597: 1, S0276: 1 and H0352: 1.						62-79,
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					Gly-97 to Gln-102, Val-141 to Thr-150, Asp-201 to Met-212, Glu-214 to Ser-222.	AR061: 7, AR089: 4, AR104: 3, AR096: 3, AR053: 1, AR033: 1, AR055: 1, AR039: 0 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2, L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1 S0424: 1 and			330-346, 411-427, 452-468, 239-255, 152-168
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1260	HBXCF11	900775	1270	63 - 1421	2675	<p>Pro-30 to Thr-36, Lys-185 to Cys-193, Ala-224 to Asn-229, Ile-252 to Gly-260, Thr-280 to Asn-288, Ser-301 to Gln-308, Ser-332 to Asn-342, Gly-357 to Ser-364, Asp-376 to Val-382, Glu-411 to Gln-419.</p>	<p>H0008: 1. AR055: 2, AR033: 2, AR096: 2, AR060: 1, AR061: 1, AR052: 1, AR039: 1, AR089: 1, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366: 2, H0542: 2, S6024: 1, S0116: 1, H0305: 1, H0580: 1, S0278: 1, H0437: 1, S6014: 1, H0013: 1, H0575: 1, S0010: 1, S0665: 1, S0346: 1, S0474: 1, H0581: 1, H0052: 1, L0471: 1, H0014: 1, H0051: 1, S0003: 1, H0644: 1, L0142: 1, S0364: 1, H0591: 1, H0488: 1, H0494: 1, H0560: 1, S0150: 1, H0529: 1, L0662: 1, L0794: 1, L0804: 1, L0789: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, L0602:</p>			<p>34-62, 88- 112, 147- 177, 311- 335, 122- 148, 195- 223, 428- 448, 229- 249, 385- 404, 1-17</p>
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1261	HKIXQ06	900956	1271	57 - 566	2676		1, H0518: 1, S0152: 1, L0612: 1, S0390: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0308: 1, L0589: 1, L0595: 1, H0653: 1, H0667: 1 and S0194: 1.				141-165, 113-129
1262	HUFDB55	900993	1272	30 - 1619	2677		AR052: 9, AR039: 8, AR033: 8, AR104: 8, AR053: 8, AR060: 8, AR055: 8, AR089: 7, AR096: 7, AR061: 7 L0766: 7, H0441: 3, L0748: 3, H0327: 2, L0787: 2, L0749: 2, L0780: 2, L0785: 1, S0360: 1, H0728: 1, H0599: 1, S0010: 1, H0375: 1, H0674: 1, L0770: 1, L0769: 1, L0761: 1, L0794: 1, L0788: 1, S0052: 1, H0658: 1, L0750: 1, L0731: 1, L0759: 1 and S0196: 1.				425-458
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1263	HFKLY39	901208	1273	172 - 783	2678	Asn-100 to Gly-105, Asn-114 to Leu-126, Ser-133 to Thr-139, Lys-146 to Cys-151, Tyr-188 to Pro-200.	2, S0406: 2, S0408: 1, H0085: 1, H0204: 1, H0597: 1, L0794: 1, L0776: 1, L0518: 1, L0789: 1 and L0596: 1. AR033: 19, AR104: 16, AR096: 9, AR089: 8, AR052: 8, AR039: 8, AR053: 7, AR055: 6, AR060: 4, AR061: 3 L0439: 19, L0776: 6, L0438: 5, S0360: 3, S0408: 3, H0620: 3, S0214: 3, L0649: 3, L0805: 3, L0663: 3, L0665: 3, L0777: 3, H0656: 2, S0376: 2, H0046: 2, S0003: 2, L0770: 2, L0771: 2, L0773: 2, L0803: 2, L0666: 2, S0406: 2, H0478: 2, L0755: 2, L0759: 2, S0116: 1, H0341: 1, H0662: 1, S0356: 1, S0045: 1, H0619: 1, H0393: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, L0022: 1, H0575: 1, S0010: 1, S0346: 1, H0505: 1, H0421: 1, H0052: 1, H0263: 1, H0596: 1, T0110: 1, H0457: 1, L0471: 1, H0375:				32-70, 67- 99, 10-42, 167-183
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1264	HUFAY01	901287	1274	32 - 1660	2679	Ser-4 to Arg-11, Ser-13 to Gly-18, Val-88 to Asp-103, Pro-105 to Ser-110, Arg-129 to Lys-135, Pro-151 to Gly-168, Ala-172 to Ser-177, Pro-185 to Lys-190, Asn-200 to Phe-205, Gln-214 to Tyr-220, Arg-245 to Asp-250,	1, T0006: 1, H0644: 1, H0673: 1, L0456: 1, S0036: 1, H0040: 1, H0100: 1, S0440: 1, H0641: 1, H0646: 1, S0142: 1, S0422: 1, L0372: 1, L0646: 1, L0800: 1, L0764: 1, L0521: 1, L0363: 1, L0768: 1, L0364: 1, L0794: 1, L0655: 1, L0659: 1, L0809: 1, L0529: 1, L0789: 1, S0374: 1, L0352: 1, H0658: 1, S0330: 1, S0380: 1, S0028: 1, L0743: 1, L0748: 1, L0754: 1, L0749: 1, L0750: 1, L0779: 1, S0434: 1, L0596: 1, L0592: 1, L0594: 1, S0106: 1, H0542: 1 and H0506: 1.				394-423, 446-470, 262-283, 338-356, 366-385, 291-307, 475-491, 20-36
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						Ser-361 to Lys-366, Ser-387 to Ala-392, Gln-425 to Asp-431, Tyr-494 to Tyr-504, Leu-507 to Val-515.	2, L0659: 2, L0666: 2, L0665: 2, H0547: 2, H0521: 2, L0748: 2, S0196: 2, H0542: 2, H0543: 2, H0423: 2, H0716: 1, S0134: 1, H0341: 1, H0458: 1, S0476: 1, H0619: 1, H0645: 1, S0278: 1, H0261: 1, H0592: 1, H0587: 1, H0486: 1, T0114: 1, S0280: 1, H0156: 1, H0706: 1, H0618: 1, H0253: 1, T0048: 1, H0546: 1, H0024: 1, H0510: 1, H0416: 1, H0687: 1, H0424: 1, H0418: 1, H0674: 1, H0625: 1, S0440: 1, H0646: 1, S0426: 1, L0770: 1, L0637: 1, L5575: 1, L5566: 1, L0761: 1, L0662: 1, L0364: 1, L0794: 1, L0805: 1, L0776: 1, L0655: 1, L0518: 1, L0783: 1, L0809: 1, L0543: 1, H0723: 1, H0682: 1, H0658: 1, S0378: 1, S0406: 1, L0439: 1, L0740: 1, L0758: 1, H0707: 1, S0194: 1, H0677: 1 and H0506: 1.				
1265	HAHCK43	901386	1275	28 - 522	2680	Gln-24 to Gly-29, Leu-43 to Ser-48.	AR055: 291, AR033: 131, AR061: 129, AR060: 117, H0506: 1.			51-73, 113-129	

Leu-77 to Leu-83, Lys-86 to Gln-93.	AR104: 77, AR089: 68, AR052: 30, AR053: 24, AR039: 23, AR096: 22 L0751: 7, L0748: 5, L0438: 4, H0556: 3, H0024: 3, S0002: 3, L0439: 3, L0777: 3, L0603: 3, H0052: 2, H0286: 2, H0551: 2, L5623: 2, L0747: 2, L0731: 2, L0601: 2, H0543: 2, H0624: 1, H0170: 1, H0265: 1, H0685: 1, H0657: 1, H0662: 1, H0458: 1, S0356: 1, S0442: 1, S0358: 1, S0360: 1, H0733: 1, S0046: 1, S0476: 1, H0619: 1, H0645: 1, S0222: 1, H0392: 1, H0592: 1, H0497: 1, H0333: 1, H0069: 1, H0635: 1, H0599: 1, H0086: 1, H0009: 1, H0563: 1, H0012: 1, H0620: 1, S0050: 1, H0373: 1, L0163: 1, H0266: 1, H0039: 1, S0036: 1, H0264: 1, H0280: 1, L0475: 1, L0369: 1, L0640: 1, L0772: 1, L0645: 1, L0764: 1, L0773: 1, L0768: 1, L5569: 1, L0775: 1, L0378: 1, L0806: 1, L0776: 1.
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									L0659: 1, L0382: 1, L0666: 1, L0665: 1, H0702: 1, L0565: 1, H0520: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, H0518: 1, H0521: 1, S0406: 1, H0732: 1, S0390: 1, S0037: 1, S0027: 1, L0749: 1, L0750: 1, L0779: 1, L0780: 1, L0752: 1, H0445: 1, H0707: 1 and S0446: 1.					
1266	HETHC61	901421	1276	82 - 819	2681	Arg-24 to Leu-33, Lys-42 to Arg-48, Asp-65 to Thr-70, Glu-111 to Leu-119, Gln-129 to Ser-138, Ser-153 to Trp-158, Pro-163 to Asp-175.			AR055: 5, AR061: 4, AR052: 4, AR060: 4, AR089: 4, AR033: 4, AR053: 2, AR039: 2, AR104: 2, AR096: 2, H0046: 3, H0483: 2, S0040: 1, S0356: 1, S0360: 1, S0476: 1, S0222: 1, L0021: 1, H0024: 1, H0494: 1, S0466: 1, S0344: 1, L0761: 1, L0766: 1, L0388: 1, H0593: 1, L0439: 1 and L0757: 1.				220-246, 1-22	
1267	HNSME80	901436	1277	251 - 1474	2682	Tyr-19 to Gly-27, Glu-39 to Arg-46, Thr-106 to Glu-112, Gln-138 to Thr-146, Ser-180 to Lys-190.			AR039: 32, AR033: 15, AR053: 14, AR104: 13, AR089: 13, AR096: 12, AR052: 12, AR060: 9, AR055: 8, AR061: 5				275-293, 308-324, 78-94, 112-128	

1268	H6EDK67	901529	1278	92 - 667	2683	<p>Asp-199 to Phe-212, Phe-220 to Ser-225, Lys-346 to Phe-358.</p>	<p>L0777: 5, S0418: 3, H0046: 3, S0422: 3, L0771: 3, L0655: 3, L0758: 3, L0646: 2, L0438: 2, L0362: 2, H0506: 2, S6024: 1, H0657: 1, L0415: 1, H0341: 1, H0661: 1, H0619: 1, H0645: 1, H0393: 1, S0222: 1, H0586: 1, H0497: 1, H0427: 1, H0041: 1, H0009: 1, L0471: 1, T0010: 1, H0622: 1, H0553: 1, H0628: 1, S0036: 1, H0591: 1, H0038: 1, H0040: 1, H0551: 1, H0623: 1, H0100: 1, T0042: 1, H0625: 1, S0464: 1, H0647: 1, L0667: 1, L0772: 1, L0803: 1, L0657: 1, L0666: 1, H0698: 1, H0691: 1, H0666: 1, H0478: 1, L0749: 1, L0750: 1, L0759: 1, S0031: 1, S0436: 1, L0592: 1, L0608: 1, L0361: 1, H0665: 1, H0667: 1 and S0242: 1.</p>				<p>36-55, 171-187</p>
						<p>Lys-23 to Arg-28, Glu-115 to Asp-120, Lys-126 to Asp-149.</p>	<p>AR089: 29, AR052: 20, AR033: 17, AR053: 16, AR104: 11, AR096: 10, AR060: 10, AR055: 9, AR061: 6, AR039: 4</p>				

1269	HMSCY51	901561	1279	72 - 1448	2684	Lys-70 to Gly-76, Glu-121 to Leu-137.	L0777: 5, S0436: 5, S0116: 3, L0805: 3, L0809: 3, H0696: 3, H0423: 3, S0282: 2, S0354: 2, H0083: 2, H0316: 2, L0763: 2, L0767: 2, L0776: 2, S0406: 2, L0779: 2, S0114: 1, H0657: 1, H0656: 1, S0358: 1, S0444: 1, S0360: 1, H0340: 1, S0046: 1, H0619: 1, H0455: 1, H0333: 1, H0574: 1, H0559: 1, T0109: 1, H0156: 1, L0021: 1, T0074: 1, H0318: 1, S0474: 1, S0049: 1, H0327: 1, H0530: 1, H0615: 1, H0553: 1, H0673: 1, H0708: 1, H0059: 1, L0065: 1, S0438: 1, H0207: 1, S0422: 1, L0520: 1, L0769: 1, L0761: 1, L0521: 1, L0774: 1, L0655: 1, L0659: 1, L0526: 1, L0793: 1, L0666: 1, L0664: 1, H0659: 1, H0518: 1, S0176: 1, H0478: 1, L0748: 1, L0750: 1, L0755: 1, L0731: 1, L0608: 1, L0362: 1, S0026: 1 and S0242: 1.	AR053: 16, AR096: 16, AR060: 13, AR052: 13,	297-315, 256-278,
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Ser-242 to Asp-247, Thr-359 to Gln-373.	AR055: 12, AR061: 10, AR104: 10, AR089: 10, AR033: 8, AR039: 6 L0766: 11, H0556: 8, L0731: 6, H0265: 4, H0009: 3, H0083: 3, H0124: 3, H0509: 3, L0752: 3, S0116: 2, H0638: 2, S0356: 2, S0354: 2, S0408: 2, S0346: 2, H0560: 2, S0002: 2, L0805: 2, L0659: 2, L0438: 2, S0126: 2, L0740: 2, L0747: 2, L0757: 2, L0758: 2, L0591: 2, L0615: 1, S0114: 1, H0657: 1, H0341: 1, H0483: 1, H0255: 1, H0663: 1, H0664: 1, S0418: 1, S0444: 1, S0360: 1, H0675: 1, S0410: 1, S0045: 1, H0574: 1, H0486: 1, T0039: 1, H0013: 1, H0004: 1, H0318: 1, H0581: 1, H0544: 1, H0545: 1, S0388: 1, H0107: 1, H0355: 1, H0510: 1, H0271: 1, L0194: 1, H0213: 1, H0166: 1, H0169: 1, H0135: 1, H0163: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, S0016: 1, S0440: 1, H0633: 1.			318-337, 380-396, 405-421, 443-459
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1270	HTXMM2 7	901592	1280	721 - 245	2685	Arg-29 to Ile-39, Pro-51 to Pro-57, Asn-112 to Thr-118.	H0647: 1, S0144: 1, S0344: 1, L0762: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0773: 1, L0662: 1, L0364: 1, L0803: 1, L0774: 1, L0378: 1, L0806: 1, L0653: 1, L0807: 1, L0518: 1, L0783: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0593: 1, H0696: 1, H0704: 1, S0406: 1, S0392: 1, H0627: 1, S0037: 1, S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1.	H0647: 1, S0144: 1, S0344: 1, L0762: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0773: 1, L0662: 1, L0364: 1, L0803: 1, L0774: 1, L0378: 1, L0806: 1, L0653: 1, L0807: 1, L0518: 1, L0783: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0593: 1, H0696: 1, H0704: 1, S0406: 1, S0392: 1, H0627: 1, S0037: 1, S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1.				93-109, 113-129
							AR039: 9, AR053: 6, AR055: 6, AR096: 6, AR033: 5, AR089: 4, AR052: 4, AR104: 4, AR060: 4, AR061: 3 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2,	AR039: 9, AR053: 6, AR055: 6, AR096: 6, AR033: 5, AR089: 4, AR052: 4, AR104: 4, AR060: 4, AR061: 3 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2,				

1271	HTXPO61	901690	1281	83 - 853	2686				L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640: 1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1.				74-101, 47-72, 155-175, 16-32, 182-198
									AR052: 4, AR055: 4, AR061: 4, AR033: 4, AR053: 3, AR060: 3, AR089: 3, AR096: 2, AR039: 1, AR104: 1, L0754: 25, H0556: 9, L0439: 5, L0745: 5, L0755: 5, L0764: 4, L0744: 4, H0046: 3, H0617: 3, L0794: 3, L0766: 3, L0666: 3,				

1272	HLWAM6 2	902115	1282	95 - 895	2687	Lys-14 to Ala-21, Ala-39 to Gly-52.	H0265: 2, H0402: 2, S0356: 2, H0052: 2, H0622: 2, H0644: 2, H0616: 2, L0372: 2, H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0777: 2, L0731: 2, L0758: 2, L0588: 2, L0594: 2, H0295: 1, H0381: 1, H0661: 1, S0418: 1, S0410: 1, S0045: 1, H0614: 1, H0333: 1, H0643: 1, H0486: 1, H0042: 1, T0082: 1, H0178: 1, H0014: 1, H0083: 1, H0356: 1, H0030: 1, H0553: 1, L0055: 1, H0591: 1, H0038: 1, H0040: 1, H0087: 1, H0412: 1, H0059: 1, T0042: 1, H0494: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L0796: 1, L0651: 1, L0659: 1, L0565: 1, H0520: 1, H0658: 1, H0522: 1, L0741: 1, L0749: 1, L0779: 1 and S0452: 1. AR039: 31, AR104: 27, AR033: 25, AR053: 17, AR096: 13, AR089: 12, AR052: 11, AR060: 9, AR055: 9, AR061: 6					52-82
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1273	HFXLK46	902129	1283	175 - 846	2688	Arg-23 to Ile-31, Ala-112 to Trp-119.	AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 S0028: 6, S0260: 4, S0282: 3, L0005: 2, L0476: 2, S0278: 2, H0318: 2, S0144: 2, H0542: 2, H0624: 1, H0171: 1, S0134: 1, S0180: 1, S0354: 1, S0045: 1, S0049: 1, H0416: 1, H0617: 1, S0036: 1, H0164: 1, S0150: 1, S0428: 1, S0216: 1, S0044: 1, S0146: 1 and S0031: 1.			41-69, 1- 21, 62-79, 149-165, 82-98
1274	HBMXXK78	902144	1284	490 - 816	2689	Lys-12 to Phe-17, Leu-67 to Trp-81.	AR096: 7, AR033: 7, AR089: 6, AR060: 5, AR053: 5, AR052: 5, AR055: 4, AR104: 3, AR061: 2, AR039: 1 L0754: 7, L0599: 4, L0805: 3, H0716: 2, S0046: 2, H0545: 2, H0615: 2, H0529: 2, L0794: 2, H0539: 2, H0478: 2, L0777: 2, L0752: 2, H0170: 1, S0116: 1, S0360: 1, S0408: 1, H0728: 1, H0351: 1, H0331: 1, H0156: 1, H0599: 1,			79-98

1275	HE8TF48	902236	1285	205 - 1476	2690	Met-1 to Cys-6, Ala-41 to Tyr-49, Lys-76 to Lys-84, Ser-197 to Lys-208, Pro-213 to Thr-220, Gln-286 to Lys-294, Ala-375 to Arg-391, Leu-397 to Thr-423.	H0575: 1, T0082: 1, H0581: 1, H0230: 1, H0196: 1, H0350: 1, S0051: 1, H0266: 1, H0553: 1, H0090: 1, H0647: 1, S0426: 1, L0643: 1, L0363: 1, L0766: 1, S0374: 1, S0126: 1, H0522: 1, S0390: 1, L0740: 1, L0756: 1, L0753: 1, L0755: 1 and S0026: 1. AR061: 2, AR060: 2, AR033: 1, AR089: 1, AR055: 1, AR096: 0, AR039: 0, AR052: 0, AR053: 0 L0803: 4, L0777: 4, L0157: 3, L0794: 3, L0766: 3, L0776: 3, L0758: 3, H0013: 2, H0251: 2, L0471: 2, H0051: 2, S0003: 2, S0036: 2, L0598: 2, L0805: 2, L0655: 2, L0789: 2, L0666: 2, H0521: 2, L0747: 2, L0756: 2, L0779: 2, L0759: 2, L0591: 2, L0362: 2, H0422: 2, S0218: 1, H0656: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S6022: 1, H0600: 1, H0587: 1, H0574: 1,				51-76, 302-326, 18-37, 331-353, 108-125, 147-167, 228-245, 125-141, 355-372, 268-284
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1276	HMUAL57	902291	1286	181 - 957	2691	Gln-180 to His-187, Arg-191 to Lys-196.	S0010: 1, H0052: 1, H0596: 1, H0327: 1, H0178: 1, H0355: 1, H0266: 1, H0328: 1, H0268: 1, H0056: 1, H0623: 1, S0150: 1, S0142: 1, S0344: 1, UNKWN: 1, L0646: 1, L0764: 1, L0363: 1, L0767: 1, L0386: 1, L0774: 1, L0775: 1, L0659: 1, H0660: 1, H0648: 1, S0328: 1, S0152: 1, H0522: 1, S0392: 1, S0028: 1, L0751: 1, H0445: 1 and L0599: 1.				222-241, 122-147, 24-42, 66- 85, 202- 218, 149- 165
1277	HWCAD85	902684	1287	250 - 1182	2692	Pro-6 to Gly-25, Lys-37 to Ala-55, Phe-107 to Phe-117, Ser-133 to Pro-139, Ile-149 to Cys-156, Gln-169 to Ile-176,	AR039: 34, AR052: 21, AR104: 20, AR096: 17, AR053: 17, AR033: 15, AR089: 15, AR060: 12, AR055: 10, AR061: 9 S0364: 1, H0529: 1, L0764: 1, L0806: 1, L0657: 1, L0809: 1, H0690: 1 and S0152: 1. AR060: 8, AR096: 4, AR052: 4, AR053: 2, AR039: 2, AR033: 2, AR089: 2, AR061: 2, AR055: 1, AR104: 1 H0521: 4, L0599: 4,				223-239, 71-87, 269-285, 183-199

1278	HLWCJ37	902841	1288	295 - 954	2693	Ser-70 to Asn-76, Pro-144 to Gly-157.	Leu-301 to Pro-310.	T0049: 3, L0659: 3, H0539: 3, L0748: 3, L0755: 3, H0069: 2, H0038: 2, S0144: 2, S0142: 2, S0344: 2, L0770: 2, L0662: 2, L0775: 2, L0744: 2, L0752: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0254: 1, H0402: 1, H0638: 1, S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0581: 1, H0310: 1, H0687: 1, S0294: 1, S0426: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0790: 1, L0666: 1, L0665: 1, S0126: 1, S0152: 1, H0522: 1, L0779: 1, L0777: 1, H0445: 1, S0276: 1 and H0423: 1.					157-187, 44-65, 184-202, 87-103, 121-138
								AR039: 12, AR096: 9, AR089: 9, AR053: 8, AR033: 7, AR104: 6, AR052: 6, AR060: 6, AR055: 6, AR061: 3 L0755: 8, L0804: 5, L0805: 4, L0777: 4, H0014: 3, S0360: 2, H0581: 2, H0553: 2, S0344: 2, S0374: 2, H0672: 2, L0362: 2, H0662: 1, S0356: 1, S0444:					

1279	HUFDC04	903101	1289	120 - 668	2694	Tyr-164 to Leu-169, Thr-175 to Lys-183.	1, H0580: 1, S0278: 1, H0586: 1, H0318: 1, H0251: 1, S0466: 1, S0438: 1, L0763: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0790: 1, S0328: 1, H0521: 1, L0748: 1, L0749: 1, H0595: 1 and S0424: 1.				135-160, 98-117, 38-59, 75- 91
							AR089: 2, AR033: 2, AR096: 2, AR055: 2, AR104: 2, AR052: 1, AR061: 1, AR060: 1, AR053: 0, AR039: 0 L0748: 12, L0777: 5, L0769: 4, L0774: 4, L0740: 4, H0556: 3, H0619: 3, H0494: 3, S0126: 3, L0754: 3, H0052: 2, H0620: 2, H0024: 2, H0617: 2, L0770: 2, H0521: 2, S0206: 2, L0591: 2, H0667: 2, H0265: 1, H0713: 1, H0717: 1, H0295: 1, T0049: 1, H0341: 1, H0661: 1, S0420: 1, S0408: 1, S0410: 1, S0046: 1, S0278: 1, H0441: 1, T0039: 1, H0013: 1, H0156: 1, H0309: 1, H0544: 1, H0046: 1, H0099: 1, S0250: 1, H0087: 1, T0069: 1,				